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SEPTEMBER 1987 VOL. 9 NO. 9

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THE MAGAZINE FOR SAFER LIVING

GUIDE



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# RY SHOPPE



# AMERICAN SURVIVAL GUIDE

THE MAGAZINE FOR SAFER LIVING

SEPTEMBER 1987 VOLUME 9, NUMBER 9

**COVER:**  
Franchi's LAW 12 semiauto assault shot-gun is a lighter, easier-to-use version of the SPAS 12. See page 26 (Photo by Jim Benson). Inset: Bear Archery's hot new crossbow. See page 56 (Photo by Rhonda Davidson).

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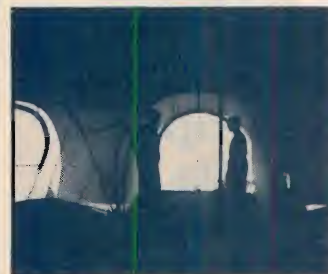
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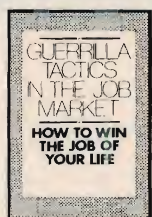
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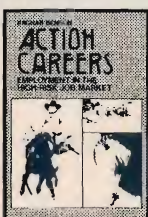
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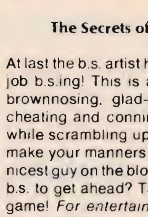
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# SURVIVAL SELF TEST

By Glenn A. Anderson

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Let's talk about blackpowder rifles. Old fashioned? You bet. Slow? Without a doubt. However, as a survival tool they beat a flat rock when it comes to knocking down what they are aimed at. Better still, a knowledgeable person can home-brew a blackpowder outfit lock, stock, barrel, flint, powder and ball from scratch. Neither are these firearms subject to federal firearms regulations. This month's Survival Self Test has been con-

structed from *Start Muzzleloading*, by Ian Phillips, copyright Connecticut Valley Arms, Inc., Saybrook Road, Haddam, CT 06438. Additional information on the construction of blackpowder rifles and components can be found in *Foxfire 5*, from Anchor Books, Anchor Press/Doubleday, Garden City, NY. Test yourself, then obtain a copy of *Start Muzzleloading*, and study those areas where the Self Test has revealed your weaknesses.

1. The main components of blackpowder are:
  - A. Sulphur, saltpeter, and charcoal.
  - B. Fulminate, sulphur, and mercury.
  - C. Nitrate, talc, and sulphur.
  - D. Coal dust, sulphur, and alumn.
2. Cleaning a blackpowder rifle is easiest when the weather is:
  - A. Hot.
  - B. Cold.
  - C. Damp.
  - D. Dry.
3. Which of the following makes it difficult to load a patched ball in a muzzle loader?
  - A. Patching.
  - B. Fouling.
  - C. Ticking.
  - D. Inletting.
4. Blackpowder is sensitive to:
  - A. Sparks.
  - B. Heat.
  - C. Static electricity.
  - D. All of the above.
5. Which of the following types of blackpowder are considered to be interchangeable in blackpowder rifles?
  - A. ffg and fffg.
  - B. ffg and ffffg.
  - C. fffg and fg.
  - D. ffg and fg.
6. Which of the following is the most often used blackpoder for rifles .45 caliber and up?
  - A. fg.
  - B. ffg.
  - C. fffg.
  - D. ffffg.
7. What type of blackpowder is used exclusively to prime a flintlock rifle?
  - A. fg.
  - B. ffg.
  - C. fffg.
  - D. ffffg.
8. What is fg blackpowder recommended for use with?
  - A. Large gauge shotguns.
  - B. .45 caliber rifles.
  - C. .36 caliber pistols.
  - D. All flintlocks.
9. Type fffg blackpowder is most often used in:
  - A. Small cannons.
  - B. .50 caliber rifles.
  - C. Percussion revolvers.
  - D. Flintlock rifles.
10. The best way to store blackpowder is to keep it:
  - A. Tightly sealed.
  - B. In original containers.
  - C. In small quantities.
  - D. All of the above.
11. What advantages, if any, does Pyrodex have over blackpowder?
  - A. Easier ignition.
  - B. Reduced fouling.
  - C. Both A and B above.
  - D. None of the above.
12. When you are using Pyrodex as the propellant in a percussion firearm, you also want to:
  - A. Add a small primer charge of fffg blackpowder to the load.
  - B. Decrease the number of grains used compared with blackpowder loads.
  - C. Use the hottest caps available on the market.
  - D. Keep the frizzen pan completely full.
13. Unless it is backed up by a charge of blackpowder, Pyrodex does not function well in:
  - A. Small cannons.
  - B. Percussion rifles.
  - C. Percussion pistols.
  - D. Flintlock rifles.
14. What is the result of a loose fitting patch and ball?
  - A. The rifling will fail to spin the ball.
  - B. The ball will become lodged in the barrel.
  - C. The gas will escape without moving the ball.
  - D. The muzzle will be split by excess pressure.
15. A good patch lubricant will:
  - A. Soften powder fouling.
  - B. Protect the patch.
  - C. Help increase accuracy.
  - D. All of the above.
16. The big weakness in a flintlock rifle is its:
  - A. Vulnerability to moisture.
  - B. Locking mechanism.
  - C. Frizzen spring.
  - D. Tendency to kick.
17. A copper percussion cap contains:
  - A. Acetone.
  - B. Fulminate.
  - C. Mercury.
  - D. Saltpeter.
18. The percussion rifle, while superior to the flintlock in many ways, had a shorter life span because of the:
  - A. Development of stainless steel.
  - B. Prejudice of flintlock owners.
  - C. Advent of cartridge guns.
  - D. Preferences of military leaders.
19. For hunting purposes, the blackpower rifle is generally sighted in at what distance?
  - A. 50 yards.
  - B. 75 yards.
  - C. 100 yards.
  - D. 125 yards.
20. What should you use to clean the bore of a blackpowder rifle?
  - A. Hot, soapy water.
  - B. Blackpowder solvent.
  - C. Either A or B above.
  - D. None of the above.

## SCORING:

For each Survival Self Test question answered correctly, score yourself 5 points. Then add them up. If your total is:

Below 70 Flash in the pan.  
 70-80 Turkey shooter.  
 80-90 Nail driver.  
 90-100 Dan'l Boone.

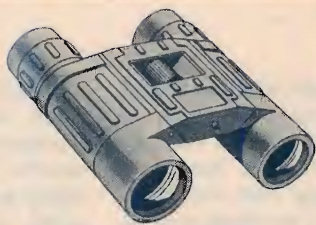
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## ANSWERS:



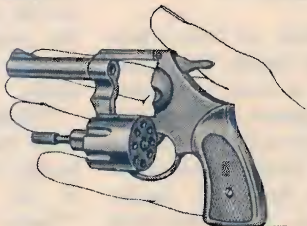


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# TO THE POINT

## *Liberal-left media: propaganda versus information . . .*

**A**S a conservative and reformed liberal, I am often offended these days by the liberal-left dogma and attacks on conservatives I find in our "news" media.

Now, I'm not saying that the entire media and everyone in it are flaming socialists. That would be a massive over-generalization and over-simplification of the matter. No, it's just that I see much of the press and even the entertainment media as being substantially controlled by a sort of left-leaning, self-perpetuating old boy network.

I have come to believe, as have others observing our national media, that there may be something of a loose conspiracy among some of our supposed media elite to try to run the country by waging a constant propaganda campaign belittling conservatives and exalting the New Left. Again, this is not a clear-cut, black-and-white type of thing, but the trends are there.

A good example, for me, is what's happened at the *Los Angeles Times* in recent years. That once conservative newspaper now spouts an endless stream of New-Left and anti-conservative rhetoric.

A typical example of which is a recent opinion page column by one William Pfaff writing from Paris (must've been the left bank). Under the headline, "American Conservatives Are Anything But," and the subheading, "Their Drastic Notions Lack the European Discipline of Reason," the column claims that American conservatives are really dangerous radicals: "In short, these 'conservatives' are actually very radical in their ideas and in their willingness to provoke drastic changes in society in the name of unproven ideas and a sectarian ideology." Pfaff goes on to compare American conservatives to "socialists, communists and anarchists."

Yes. Must be so. After all, you read it in the *Los Angeles Times*. Yes, we conservatives lack that great European discipline of reason. And yes, Europe has certainly been a paragon of reason. Why, how many tens of millions of people have lost their lives on that blood-soaked continent in this century alone? Yeah, there sure has been a lot of reasoning going on over there.

Now, the good old liberal-left is going to save you from all this craziness, folks. Don't you listen to President Reagan and the nation's "radical right." Listen instead to the good guys. They're not socialists. They're actually the *real* conservatives by European standards. And it's not that their left-leaning ideas are utopian. Why, not at all. They're really progressives, social and political progressives.

So follow their lead and vote for their ideals of banning the death penalty (a characteristic of a "barbaric civilization," says the *Times*), raising taxes to pay for a bigger government bureaucracy and more social welfare programs, restricting or banning gun ownership, cutting back defense spending since we really don't need it, etc., etc.

No thanks, I consider myself a liberal in many ways, but I've come to believe that many of our current "liberals" are rather too far to the political left for the good of the country. I bought that liberal-left dogma once. I don't plan on doing it again.

Calling the New Left "liberals" is ironic, since many of these people strike me as hardly "progressive" politically, according to the strict dictionary definition of "liberal." No, they're peddling the same old tired unworkable answers to society's problems that have been tried (though certainly not to the extent some of our esteemed "liberals" would like) and which have failed miserably, in my opinion.

Seems to me that many of the activists on the political left are frightened people today, even desperate people. Hence their stepped-up rhetoric and attacks on conservatives, whom they angrily condemn as radicals bent on dismantling our government and destroying society.

Well, I suppose this is understandable. I mean, these poor souls have had to stand by and watch as their beloved dream of a socialist utopia has been swept aside by a conservative tide that has brought and is bringing considerable changes in society.

So you see newspapers like the *Los Angeles Times* reporting polls which purport to show that Americans, by a better than 2-to-1 margin, want a "new direction" in political leadership, and that many of those polled believe there never was a "Reagan revolution" or if there was, it's over with.

Yes folks, if you can believe much of the press, we Americans are pleading for a return to the good old liberal-left politics of yesteryear to save us from those terrible people of the "radical right."

A journalist friend recently contended that Reagan is washed up politically and that "nobody believes him anymore." I don't agree. Notwithstanding whatever may eventually come out of the "Iran-contra affair" inquiry in Washington and all that the liberal-left is trying to make of it, I think it'll be a cold day in hell before this country turns to socialism as a way to solve its problems—*Jim Benson*.



# SURVIVAL LINE

*Reduced deaths predicted in a nuclear war, major Midwest/East Coast earthquake likely soon, storm weather, suspicious activity telephone lines, indoctrination of school children to support nuclear freeze movement . . .*

**A** new study by the Federal Emergency Management Agency, FEMA, estimates that 111.9 million Americans live in areas that would probably be directly targeted by the Soviets in a nuclear war. It is likely that most of these people would die as a direct result of nuclear blast effects.

In a similar 1975 study by FEMA, the agency concluded that 155.86 million U.S. citizens resided in such "directly targeted areas" and that they could be expected to die almost immediately, should a full scale nuclear exchange take place.

FEMA officials say that the lower death toll in the most recent study is a result of the increased accuracy of Soviet warheads and delivery systems. This increase in accuracy permits the use of lower yield warheads thus reducing the blast effect area of the weapon.

The study also noted that 62.6 million Americans resided in relatively low risk areas of the country.

FEMA is providing state and local civil defense planners with computer printouts of the target locations generated by the study. This data will be used to update plans for coping with the effects of a nuclear war. According to the study's project director, local officials don't have many choices. "For local civil defense authorities, there are two options . . . You can either dig or get out of the way."

FEMA is expected to use the study in its effort to get increased civil defense funding in 1988. The agency is requesting \$190 million for civil defense functions for fiscal 1988. The 1987 civil defense budget was \$139 million.

**Eastern Shakesup**—The American Association of Engineering Societies, AAES, has completed a report that says there is almost a 100 percent probability of a major earthquake occurring in the eastern U.S. within the next 25 years.

The study was undertaken to ascertain the effects of such a quake on energy production and distribution networks in the U.S.

Two areas in the east were cited as being the most likely in which a major (6 or higher on the Richter scale) earthquake might occur, the Mississippi Valley and the area surrounding Charleston, South

Carolina. According to the report, "the earthquake threat in the eastern U.S. is real. The only uncertainty is where and when."

**Phone Fun**—The National Oceanic and Atmospheric Administration, NOAA, has set up a nationwide hot line to provide up-to-the-minute information on threats posed by tropical storms and hurricanes. Recorded messages will inform callers as to the location of storms, their intensities, predictions on future movements, tidal effects, and other vital information.

For information regarding East and Gulf Coast storms, call (900) 410-NOAA. For storms in the Pacific which might affect Hawaii callers can dial (900) 410-CANE. Calls cost .50 cents for the first minute and .35 cents for each additional minute.

**Spy Lines**—Stung by the recent charges of spying by Marine embassy guards, the Navy has joined the Army in establishing toll-free hotlines which civilians and military personnel can use to report suspicious activities. For the Navy (and the Marines) the number is (800) 445-7343. For the Army call (800) CALL-SPY.

**Indoctrinating Children**—If you as a parent and a survivalist have children in the public schools, it might be wise to find out whether they are being indoctrinated in what has come to be called the "nuclear curriculum."

According to U.S. Secretary of Education William J. Bennet and a number of conservative organizations and educators, school children across the country are being indoctrinated in the ideals and goals of the nuclear freeze movement through courses taught in the so-called nuclear curriculum.

The nuclear curriculum is being promoted throughout the country by a group known as "Educators for Social Responsibility," an avowedly anti-nuclear pro-freeze organization.

Says Secretary Bennett regarding the nuclear curriculum, "It is not the business of American education to encourage unreasoning fear of any kind." ●

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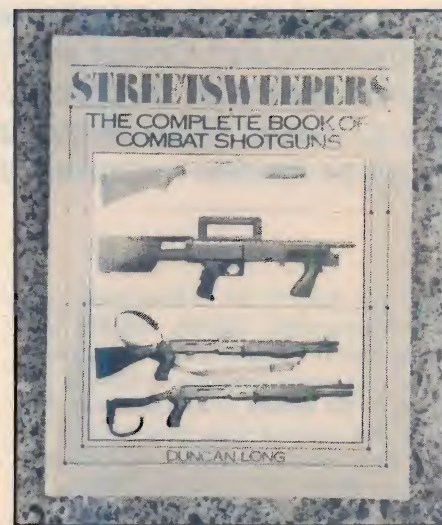
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## BOOKS/VIDEOS



**How To Get Anything On Anybody**, by Lee Lapin; CEP, Inc., Dept. ASG, P.O. Box 865, Boulder, CO 80306; (303) 443-2294; 264 pages, softcover; \$30 plus \$3 for postage and handling.

Called "Possibly the most dangerous book ever published" by Peter Laufer, NBC News, *How To Get Anything On Anybody* contains all the information you could ever need to know to get the information you want—about whomever you want. It is a virtual encyclopedia of advanced investigative surveillance techniques. A valuable reference for anyone, from the curiosity seeker to the professional investigator. Need information on someone? Perhaps you just need to know someone's credit history or driving record. The book will tell you how to obtain such knowledge. Curious about the contents of someone's mail? Would it be to your advantage to know what's in that envelope? Lapin provides two methods to discreetly open such packages. Perhaps the situation is a little more serious. Maybe you are looking at a breach of law in order to receive some information. The book is not lacking in illegal methods, but it does warn you when legality is in question. If it's bugging you're considering, Lapin spends much time on the techniques and the equipment involved. In fact, four experts are questioned on how they would do it. These professionals all had been active in the field of electronic surveillance for a minimum of seven years each. They discuss how to bug a phone or room, among other things, from getting in to where to place the bug. Tricking polygraphs, listening through walls and lockpicking are only a few other topics addressed in order for you to obtain anything on anybody.



**Streetsweepers: The Complete Book of Combat Shotguns**, by Duncan Long; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 154 pages, softcover; \$17.95 plus \$3 postage and handling.

*Streetsweepers* is a detailed, comprehensive book on combat shotguns, covering every type of action from pump to semi-auto, and includes information on certain models not yet on the market. The love affair with this weapon goes way back. Though there is no clear record of when the first shotgun was introduced to the European battlefield, the author points out it was probably in the mid-1200s. Beginning as a black-powder weapon, technological improvements were long in coming. From here, the first major improvement came in the form of a "match" (the term used for smoldering string). This replaced the coals that ignited the fine powder which set off the main charge of gunpowder in the weapon. The author continues to trace the history of the combat shotgun, through the efforts of several countries to our own. From our Civil War to the present, Long provides an intelligent recollection of events that have brought the shotgun to where it is today. But he doesn't stop here. As a noted gun writer, Duncan Long also advises on combat shotgun tactics, what ammo to use, accessories, and much more. The book is also useful to the civilian who has the shotgun for personal protection only. Even if the history of the weapon is of little interest to you or the discussion of various models, the section on indoor combat could prove very helpful. As Long points out, "Citizens have come to realize that while the police help catch criminals, they do little to save people from attack."

(Continued on page 16)



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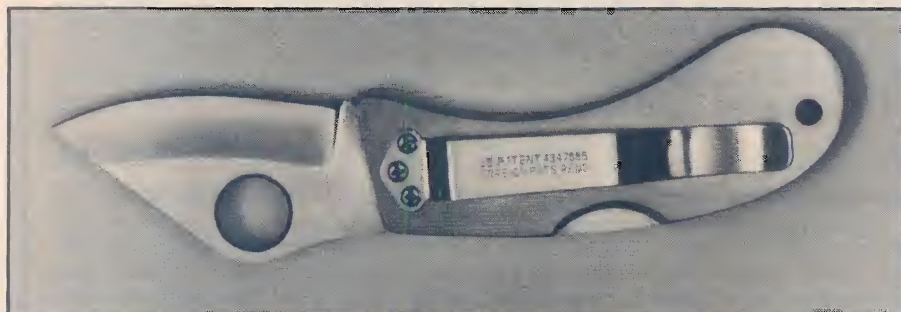
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weeks. Measuring only 6 x 8 x 10 inches and weighing less than two pounds empty, the unit is designed for ease of filling under emergency conditions. After emptying and rinsing, the battery may be stored for reuse. This light should be useful for extended power outages such as those resulting from floods and earthquakes. Alupower, Inc., Dept. ASG, Affiliate of Alcan Aluminum Corp., 6 Claremont Road, Bernardsville, NJ 07924; (201) 766-7750.

**Windseeker**



David and Doug Calley, after years of experimentation in the field, decided there was a need for a modern small scale wind-generator. Before they began development, they decided on four major objectives which they needed to achieve. 1. A system which is more efficient than anything on the market for the size. 2. It must be direct drive and have minimal maintenance. 3. Any parts that do wear, such as brushes and bearings, must be readily available. 4. A system that anyone can afford. Three years and about \$15,000 later, David and Doug came up with the "Windseeker." This miniature power plant has more than fulfilled all of their goals. They say the Windseeker is more efficient than any other system in its class today. It produces 20 amps with its 60-inch blade and the (patent pending) over speed control device allows it to continue producing near full output, even under severe weather conditions. All moving parts are greaseless or sealed. The new circuitry allows the modified automotive alternator to put out high voltage at low rpm and there is no gear box to keep lubricated. The alternator is a highly modified Ford alternator, so parts for rebuilding can be purchased at any auto parts store. Best of all is the cost, the retail price under \$800, is lower than any other in its class. A person will be able to buy a complete system for



around \$795 or a kit to complete on their own for about \$395. The price will vary depending on the kit the person decides to buy. The complete system has everything you need except a tower. However, since the generator produces only 20 pounds of lateral force, a 2-inch, schd. 40 steel pipe is all that is required. The Windseeker will produce 20 amps at 12 vdc. The system starts generating at 7 mph and peaks out at 25 mph. This highly efficient wind-generator is designed for just about any location where battery recharging is required. The 25-pound Windseeker has a rated output of 20 amps in a 25 mph wind. Product Development Services, Dept. ASG, P.O. Box 22178 Flagstaff, AZ 86002. Price \$795.

#### Paint Ball Helmet



The Command Post, Inc. introduces the first full-coverage helmet designed by and for paint ball gamers. This helmet is fully adjustable to fit almost anyone and offers total head, ear, eye, face and throat protection. The wrap-around shield provides excellent peripheral vision and the ability to wear eyeglasses underneath. Best of all, because the helmet is fully ventilated, the shield will not fog even under heavy exertion. An optional camo cover (available in four different color patterns) makes this helmet all but disappear. The price is \$49.98 with discounts for dealers and game operators. For additional information contact The Command Post, Inc. Dept. ASG, P.O. Box 1500, Crestview, FL 32536; (904) 682-2492.

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#### Team Leader Knife



SOG Specialties, producers of the Special Forces SOG Bowie Commemorative, has come out with a 4½-inch bowie designed folding battle blade known as the "Team Leader." This lockback is offered in gun blued high carbon tool steel or stainless steel. The very thick .180 blade features the proven SOG-Bowie blade design utilizing a deep hollow grind and a false edge. Designed for professional military personnel, the knife is also applicable for those who want a state-of-the-art, large hunting/field knife. The "Team Leader" is built with vastly oversize pivot pins and a ser-

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*If you plan to be on the waters of the world, learn what you can about sharks . . .*

By W. Ed Poe

**T**HERE have been very few movies that have generated as much fear of sharks as *JAWS*. The movie was great in my opinion. However, knowledgeable marine biologists feel it was exaggerated. It may have been, but for the most part, I'm sticking with the movie. Nothing anyone can say will ever change my thinking that the shark, regardless of species, is the greatest manhunter of the sea world. Whether walking in the waves on the beach or actually in the water, I will never trust a shark . . . and neither should you.

There have been thousands of stories and books written about sharks, their eating and attack habits, mating methods and their many encounters with man. Your local public library can provide you with countless hours of reading material concerning sharks and humans' hair curling stories of survival. If by chance you plan to be on the waters of the world . . . learn what you can about sharks. Your knowledge may save your life, or the life of a loved one.

In the Atlantic and Pacific oceans, the Great White shark is the worst of the lot. They seem to be the number one villain, when it comes to eating man, beast or boat . . . alive, dead, floating. Whichever way doesn't seem to make a lot of difference to them. Once they get you in their sights, so to speak, and are hungry or agitated, they attack. There are even photographs of a Great White actually biting an outboard motor of a small craft!

Some marine biologists say that Great Whites, and other species as well attack man or boats because of mistaken identity. Something about the person or boat looks or sounds like normal food to the shark. This may be true, but I can't figure out what looks or sounds like a bait fish on a small craft. There are many documented cases where Great Whites actually rammed or bit holes in boats. Records indicate the size of the boat doesn't matter. Sharks have attacked, and sunk boats from 12 feet in length to 28 feet in length. Some boats as long as 40 feet have been damaged by attacking sharks. One report indicates a 646-ton steamer was damaged by a charging 35-foot Basking shark in mid-ocean! If boats and ships

look like food, then you can imagine what you look like to them.

Most reported attacks on man have been in less than 75 feet of water. The attacks range from beach walking to deep scuba diving. Many biologists feel that man or boat entering into the shark's territorial waters causes the attack, rather than just a shark's eating habits. If this is true, then why have fishermen found everything from ship's papers to kegs of nails in the stomachs of the Caribbean Tiger shark? The Tiger shark is the warm water counterpart of the Great White.

Opinions of professionals in the shark field will vary considerably as to why sharks do what they do and how they do it. Some feel the sharks only hit their prey once to sample or injure it. Then, if they like what they see, they go back for seconds, thirds or the whole thing. A couple of years ago, a surfer in Monterey Bay, California, was killed by an 18-foot Great White. The shark evidently took a foot-and-a-half wide bite out of the surfboard, then went back for seconds . . . the surfer. A good reason the Great White is known as "white death."

According to Jacques Cousteau, the oceanic Whitetip shark is the most dangerous to man. Together with Blue sharks, Whitetips are often suspects in attacks on air and sea disaster victims. Another dangerous shark is the Hammerhead. They are quickly identified by their bizarre-shaped head.

Regardless of species or size, when sharks get into a feeding frenzy, they bite, tear or snap at anything in sight. This includes logs, rocks, boats and certainly people.

A good friend of mine said he would never live on the ocean because of sharks. He has a very nice houseboat on an inland lake, which feeds water into the Ohio River, thus the Mississippi River. I am not really sure he is safe within the confines of the lake, as Bull sharks have been found as far inland as Ohio and Illinois. Bull sharks are predators!

**Survival Tips**—For those of you who plan to be on the seas and around the

*(Continued on page 18)*

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Same color coded set as Model A. Only with deluxe 13 pieces. Price includes tension wrench and book. Model B **\$27.95**

## BOOKS

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Complete Guide to Lockpicking	\$9.00	How to Pick Pins & Wafers	\$8.95
Improvised Lock Picks	\$9.95	Combination Locks	\$6.00
Tubular Locks	\$7.95	Keys by Impressioning	\$6.00
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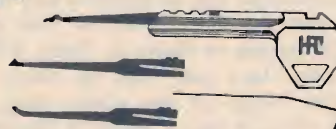
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This handy new pick set is the most popular set among professional locksmiths today. This kit consists of 12 different tools housed in a handsome black leather case designed for a shirt pocket. Included in the price, you receive a 5 piece warded key set and a copy of "Lockpicking Simplified." 17 piece set total.

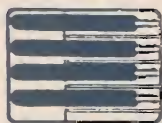
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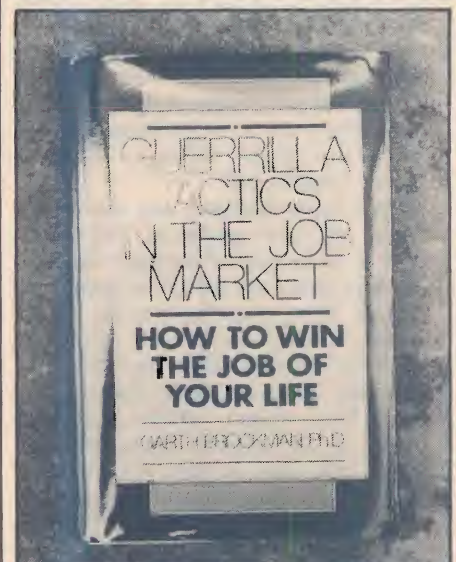
## Books/Videos

(Continued from page 10)



**The Ultimate Baton: Tonfa Baton—**  
Video; J. Flores Publications, Dept. ASG,  
P.O. Box 14, Rosemead, CA 91770; 2  
hours; \$129.95 ppd.

*Tonfo (side handle) Police Baton* is a professionally produced two-hour color video tape that offers a complete training program on the use of this versatile weapon. Instructions are presented in an easy-to-learn, step-by-step, mini-lesson format. Over 75 practical techniques are taught by Sid Campbell, a 6th degree black belt, and a world renowned authority on the subject. This tape is not just demonstrations, however. It is a teaching tape. One that is ideal as the primary teaching method for law enforcement agencies, or as a refresher course for individual law enforcement officers. It comes in VHS format only.



**Guerrilla Tactics in the Job Market: How to Win the Job of Your Life, by Garth**

(Continued on page 63)



# A Home Radiation Detector May Save Your Life — and Your Family

"The nearest nuclear power station is hundreds of miles away; therefore, I don't have to worry." **WRONG.** You do need to be concerned. It is possible to be exposed to radiation in your own home. **HOW?** Do you live near a major interstate highway or near a transcontinental rail line? If the answer is **YES**, then you can be living in a high risk area for a nuclear incident. The possibility of an accident carrying radioactive contaminated material is increasing. It is via these two means — interstate highways and transcontinental rail lines — that the transfer of radioactive material occur. The movement of ore from the refinery to the user or the transfer of waste to a storage dump site are occurring continuously. Over the last several years, a number of accidents have occurred. In one such accident a loss of 50 pounds of uranium was reported.

Will it happen again? If it does will it be down the street from me? How can I protect myself?

These questions will be plaguing society for years to come. Self protection from exposure may not be totally possible; however, the duration of the exposure can be shortened by having immediate knowledge of an increase in the level of radiation. Our public officials will notify us of any potential problems, but how quickly can they react? immediately? 5 minutes? 10 minutes? 30 minutes?—an hour? Early detection allows you to move **your** family to a safer environment sooner, thereby shortening the length of the exposure.

## Peace of Mind

Just as your smoke detector will warn you of a possible life and death catastrophe from smoke and fire, **SURVIVOR** will **WARN** you of a significant increase in the level of radiation. **SURVIVOR** is a quartz controlled digital processor monitoring the level of radiation around **YOU**. As the threat of higher levels of radiation occur, **SURVIVOR** will warn you **NOW**. **SURVIVOR** will detect Alpha and Beta particles, Gamma X-rays, and high concentrated levels of radon gas.



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**SURVIVOR** is designed to be plugged into any 110 volt outlet. A green LED will tell you it is looking for an increase in the radiation level. Should you lose 110 volt power, a rechargeable battery will take over for continued protection. At that time the green LED will go out and a red flickering LED will tell you of the 110 volt power failure. To test the alarm, simply push the test button on the top.

An automatic pre-set alarm of 32 counts per 8 seconds (which is equal to .25 mR/hour) determines the level at which **SURVIVOR** will sound the alert. A loud piercing beep warns you of an increase in the level of radiation above this pre-set level. You can then unplug **SURVIVOR** from the wall and switch the mode switch from **ALARM** to **CLICK**. It can then be used as a gieger

counter in determining the direction of the radiation source by an increase in the click rate, thereby allowing you to move in the opposite direction to a safer environment.

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## Shark Attack!

(Continued from page 15)

beaches, there are a few not-so-proven methods of survival when encountering sharks. I say, not-so-proven because the methods do not always work with individual sharks. All you can do is follow all the procedures and hope for the best—provided you see the shark before it attacks. Unfortunately, two-thirds of shark attack victims never see the on-coming death or injury before it hits.

When strolling the beaches, especially at dawn or dusk, stay out of even the shallow edges of the surf. Running or diving into areas which are dark or murky should be avoided. Enter all water slowly. A sudden movement or splash can cause a shark to attack.

If a shark is seen, calmly get out of the water. Sharks have been known to come into the shallow waters of the beach to get their prey. Mako sharks have even been known to jump into boats with people!

If swimming or wading, stay away from schools of fish. If there are sharks on the prowl, they may go for the fish, or you.

If in a boat or swimming around a boat, always have at least one person assigned as a shark lookout. Get out of the water if one is seen and leave the area as quickly as possible. Go for the nearest shore or dock. Do not throw anything over the side or trail any legs or arms in the water. Even vomit can cause the shark to develop an eating urge.

Approximately 90 percent of all victims are men, but that is because more men enter the underwater world of the shark. Women, especially those having a menstrual period, are targets for sharks, too. Blood attracts sharks, so remove any injured people from the water as soon as possible. For the safety of others that may be involved in a sea or air disaster on water, anyone who is bleeding badly, and it can not be controlled, should be kept away from the others. Sounds cruel, but the blood may create a feeding frenzy which could cost the other survivors their lives. Stay out of water where there are bloody fish parts or any other bloody animal parts about.

When swimming, and a shark is spotted, the best thing, as I have said, is to get out of the water. If this is not practicable, due to distance to shore or boat, stay as still and quiet as you possibly can. Float to save energy, which may be needed to fend off an attack. If you must swim, use strong, regular strokes. Do not panic and make frantic, irregular movements.

Once ashore or aboard a raft or boat, be quiet. Do not splash the water. You are inviting an investigation by the shark by doing this. Sharks are curious and will investigate any movement. In most cases, they will just swim away, but if you attempt to feed them or agitate them in

any way, they may attack.

While in the water and a large shark attacks, there are a few things you might try.

Using the strong, regular swimming movements; try feinting toward the shark. You may scare him away.

Do not swim directly away from a shark. Swim at an angle.

If the shark is coming directly toward you, face him and try to swim very quickly to one side to avoid contact.

As a last resort, kick, punch or stiff-arm the shark to push him away from you. Hit him in the eye, gills or snout. One survivor of a shark attack claimed he gouged the shark's eyes, causing the fish to release him.

Yelling underwater or blowing bubbles may scare him away. Try anything that comes to your mind, but avoid overconfidence in your ability to defend yourself.

The use of knives, CO<sub>2</sub> darts, spearguns or other weapons, while sometimes effective, are potentially dangerous to the user. A misplaced stab or cut may provoke a violent reaction.

If a group of swimmers are stranded and a shark begins circling or attacks, the group should form a circle, facing outward. Try to remain calm and do not make any sudden or noisy moves. Should one of the group panic and attempt to swim away, let them go. Close up the circle. A rescuer will attract more attention to the group.

The most important thing in or on the water is to keep calm. Panic will only cause you more trouble, especially when dealing with a large shark. Chances are slim that a shark will ever attack you, but if one does, defend yourself with all your strength and mind.

Over the years, many so-called shark repellents have come and gone. The U.S. Navy's famous "Shark Chaser" was one of them. The future does hold some bright spots for those who may have to face the danger of shark attack. There are several new repellents being tested, which may be just the thing. They are made from a poisonous fish toxin. It will probably be a couple of years before they get on the market, but at least they are promising.

Other new items now available include a powerhead with an explosive tip and a billy club with a special tack in the end. Also, the Navy is testing a new "Shark Screen" which is made of polyethylene and looks like a plastic garbage bag with floating air rings on the top. The plastic won't keep the sharks from biting you, but according to the reports, the bag for the person to ride in isn't viewed as prey by the shark.

Even though shark attacks are more frequent today than in years past, humans still have the upper hand. People eat more than four million sharks a year. ●



## SOUND DETECTORS

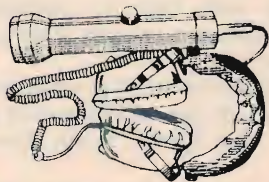
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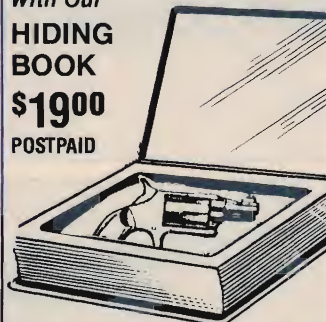
Looks like an ordinary ball point pen, complete with pocket clip. But pull off the cap and you've got a potent punch of CS Tear GAS at your disposal. Wear PENalyzer in your shirt pocket and have unobtrusive security no matter where you are. 8g aerosol shoots disabling blast 6 to 8 feet. PENalyzer is filled in France by one of the world's oldest and largest manufacturers of chemicals and equipment for police/military applications. Special Dutchman price of \$8.95 each or six for \$29.00 postpaid. Hurry, supplies are limited on this very unique product.



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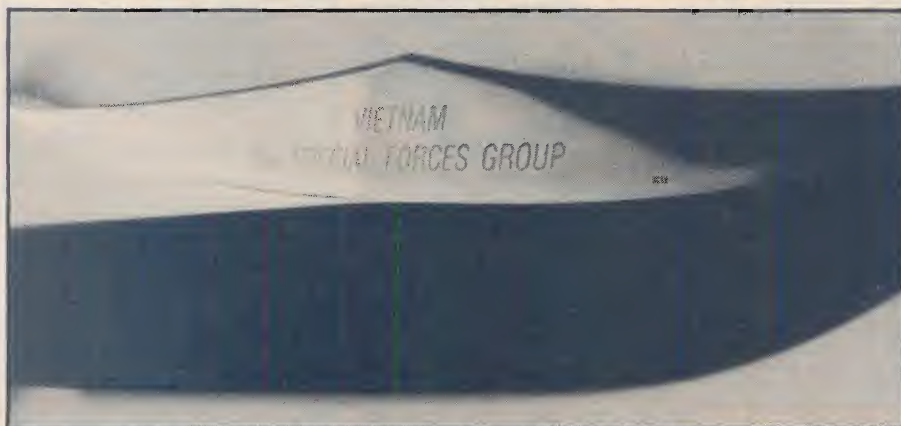


SOG Specialties:

# Special Forces Commemorative

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## Special Forces Commemorative



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While the Special Forces Commemorative is being sold as a collector's knife, practical use is also possible and was planned for by the makers.

The 6½-inch high carbon, gun blued bowie blade is the same design as the original Special Operations Group knife carried in Vietnam.

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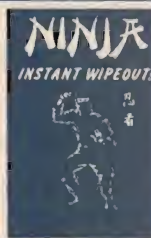
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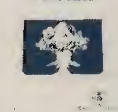


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## Asteroids, Comets:

# Cosmic Calamities

*Studies of the geological history of the earth have revealed that every 26 to 30 million years the planet undergoes a cataclysmic mass extinction of a large percentage of its life forms . . .*

By Michael Pietrantonio



**T**HREE—two—one, fire." From one of the many cylindrical steel-lined wombs at Vandenberg Air Force Base a sheet of flame erupts in an inverted V. Ever so slowly the missile inside strains against inertia and begins moving skyward.

Atop the gleaming white column sits a silver and black nosecone, a nosecone which covers and protects the missile's

precious cargo. Moving ever faster the rocket begins to lean into the trajectory which will allow it to drop its cargo, a one-megaton nuclear warhead, within 100 feet of its target.

Half a world away, at the Tyrantum missile launch facility in the Soviet Union, a button is pushed initiating a series of events which are the mirror image of those

occurring at Vandenberg. Within moments the Soviet missile's inertial navigation system finds and locks onto the course which will take it to its programmed target.

Around the world people gather at their television sets to watch the two simultaneous missile launches. There is no fear or panic, only prayers that the two missiles hit their shared target. The target is an aster-



oid on a collision course with earth. The missiles are intended to divert the path of the asteroid just enough to cause it to miss the earth. Should they fail, the earth faces a catastrophe which would make a nuclear war seem like a mere annoyance.

Sound like the opening to a grade-B science fiction novel? It isn't. In the past few years scientists have begun collecting and correlating data which show that periodic mass extinctions of life on earth, (such as that which occurred with the dinosaurs), could very likely have been caused by large asteroids hitting the planet. So seriously is this hypothesis now taken that a number of asteroid tracking projects have been started by researchers around the world.

Asteroids are believed to be remnants of the material which formed the planets in our solar system approximately 4½ billion years ago. Primarily composed of various metals and rock, asteroids are irregular shaped and can range in size from microscopic to hundreds of miles in diameter.

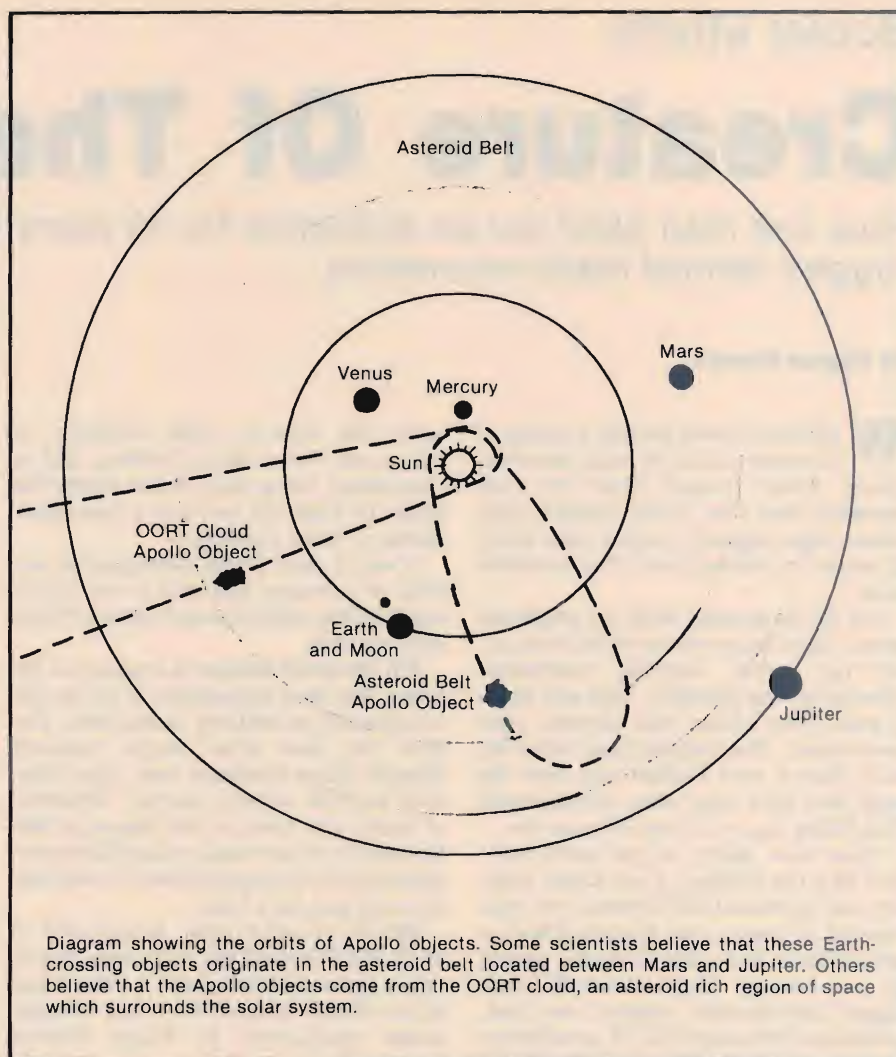
For the most part asteroids orbit the sun in a region known as the asteroid belt. Located between the orbits of Mars and Jupiter, the asteroid belt contains billions of these space rocks. Of these billions of asteroids scientists estimate that there are about 400,000 which are of a size (from ½ mile to 600 miles wide) that could cause devastation should they impact the earth.

How might an asteroid threaten the earth? It is theorized that every so often an asteroid is diverted from its normal orbit within the asteroid belt by the gravitational forces of the planets within the solar system. The asteroid is in effect pulled or thrown into a new, exaggerated orbit about the sun. It is possible for this orbit to intersect the orbit of the earth, thus making a collision between the earth and the asteroid a possibility. Since the 1930s, 66 such "earth crossing" asteroids have been discovered. They have been named Apollo objects by scientists and it is estimated that there are up to 1,000 such objects yet to be discovered.

There is a school in the scientific community which asserts that the Apollo objects are not necessarily from the asteroid belt. These scientists speculate that the Apollo objects originate in an asteroid-rich region of space which surrounds our solar system, known as the OORT cloud. Yet another theory suggests that the Apollo objects are actually the remnants of comets which over time have lost their frozen gases and ice crystals and become simply orbiting space rocks.

Whichever theory relating to the origin of the Apollo objects may be correct, one fact cannot be disputed. The earth has been hit by these objects in the past, and the impacts have caused great destruction.

The remains of some of these impacts are clearly visible on the surface of the earth. Were it not for the earth's atmosphere and its eroding effects the planet might well be pockmarked with craters



caused by asteroid-earth collisions.

Early in this century mankind had a chance to see the destructive potential of a collision between an Apollo object and the earth. On June 30, 1908 a small asteroid or comet exploded above the Stony Tunguska region in Siberia. Releasing energy equivalent to a 12-megaton nuclear blast, (more than 1,000 times as powerful as the Hiroshima bomb), the explosion flattened forests over an area of more than 1,000 kilometers. The sound of the explosion was heard up to 500 miles away, and the shock wave from the impact went twice around the earth. All of this was caused by an object scientists estimate was about 200 feet in diameter.

By a quirk of fate the Tunguska event occurred over one of the most isolated spots on earth . . . it could just as easily have hit a city.

The U.S. also is scarred from a celestial impact. Approximately 25,000 years ago an iron meteorite hit an area of what is now Arizona. The force of the impact is estimated to have been the equivalent of a 15-megaton nuclear bomb. The crater dug out by the impact is almost a mile across and more than 600 feet deep. It has become a popular tourist attraction in Arizona.

**Chances Of Collision**—Astronomers studying Apollo objects have come up with statistics which indicate the odds of varying sized objects hitting the earth as well as the size of the resulting explosions. Some of these statistics are presented below. There is a 12 to 40 percent chance of another Tunguska-like event occurring within the next 75 years. An impact with force equivalent to a 50-megaton explosion is likely every 1,200 years. Every 250,000 years the earth can expect to be hit by an asteroid ½-mile wide. The explosive force of such an impact would be in the area of 100,000 megatons. An asteroid 10-kilometers wide can be expected to impact the earth every 100 million years. The force of such an impact, approximately equivalent to 1 billion Hiroshima-size bombs, could be expected to completely disrupt natural planetary functions. Weather would stop, and the destruction of all human life could be expected. (It should be noted when considering these figures that a full scale nuclear war would result in the equivalent of about 10,000 megatons of explosive energy being released).

The impact of a large asteroid would, it is theorized, send enough debris into the atmosphere to create a "nuclear winter"

(Continued on page 66)



# Creature Of The Forest

*How one man eked out an existence for 13 years in the wild, rugged central Idaho mountains . . .*

By Ragnar Benson

**W**HO of us, while pulling a bucket of icy water out of a freezing mountain stream, hasn't thought about the early mountain men who, while checking their beaver traps regularly, waded these kinds of waters in nothing more than buckskin boots.

Life for these hardy souls was tough and brutal. They had no warm rubber boots or, for that matter, anything waterproof. Their guns were primitive, their axes made of iron. They seldom had matches, their tents leaked, their sleeping bags were little more than a wool blanket and even the traps they used were often nothing more than falling logs or a loop of brass wire.

There were giants on the earth then. Men like Jim Bridger, Liver Eatin' Johnson, Jed Smith and Bill Sublette who, with a pound of powder, two pounds of lead, a sack of beans and a side of bacon, opened up our country. Single handedly these rugged individualists mapped our land, established cities and laid the groundwork for our country's fledgling agricultural and extractive industries.

But that was 200 years ago. Nowadays no one in the U.S. has to endure those kinds of conditions of duress and uncertainty. And, perhaps, no one could. Just maybe all of the giants have passed from the scene.

Sleeping in a soaking wet bag in an open ended tent with a minus 20° wind blowing isn't fun. It isn't romantic. It isn't neat and it isn't an acceptable way of life other than on the most temporary of bases.

Grief and hardship is what they called it. The old mountain men could take it—grief and hardship and all that Mother Nature could dish out—but, as John Dennis, a veteran of almost 30 years in Idaho's mountain wilderness said, "When it comes to taking grief and hardship, Bill Moreland was in a class all by himself."

All things considered, Bill Moreland's little known story is one of the most incredible ever to come out of the West, including the well known, highly publicized sagas of our mountain men.

For 13 long cold, starved years, Bill Moreland lived back in the Idaho snow country. By his own admission, he talked to humans only twice during all that time. As near as any man ever has, Moreland lived like an animal of the forest. He made his home in hollow logs, under bark and

cedar slab lean-tos called wickiups, in backwoods Forest Service shelters, and in open ended canvas tents. Never during the entire 13 years did he build a permanent shelter or plant a garden.

It was 11 years till the man acquired any kind of a firearm and then it was only a small caliber rifle he picked up in a Forest Service cabin.

Bill Moreland became a creature of the forest. But most remarkable of all, he did it voluntarily in relatively recent times. Far after the time when people seriously thought about mountain men, true long-term survival, or such matters. Residents of Idaho who lived on the fringes of Bill Moreland's home range (nobody lives permanently in that country) tend to feel that his story may be a hoax.

But the record is good. In early fall of 1932, Bill Moreland left civilization, not to return again until February 11, 1945, when he was finally tracked down and brought under quasi-arrest by Forest Service personnel.

Bill Moreland's home during those 13 years was the central Idaho mountains comprising four National Forests, no less than five major rivers, and covering a minimum of 9,000 square miles!

Annual precipitation in this area totals from 30 to 40 inches. Most occurs in the winter as snow when depths of five to eight feet on the level are common. Even in the warmer, low valleys, 30 inches of snow will accumulate. Deer and elk that winter there often have to wade in snow up to their necks to forage for browse. Many die of starvation.

Mountains in this country are in the 7,000-foot range. They remain impassable until July each year. Twenty-foot depths going to as much as 50 feet are typical in the passes.

Even today most of this country is not seen from the ground any more often than once or twice every five years. Some of the country may never have been explored by anyone on foot at any time. Only God knows for sure. Indians, for instance, never lived in this area and didn't even hunt it except very infrequently.

Bill Moreland is one of perhaps no more than 20 men who have ever seen parts of St. Joe and Clearwater National Forests during the winter.

The area in question is huge. Idaho

County alone, for instance, made up just a part of Moreland's territory. The country is bigger than several states. The entire 9,000 square miles over which he regularly roamed is larger than Connecticut, Delaware, Hawaii, Massachusetts, New Jersey or Rhode Island.

Evidence pieced together later, based on petty break-ins, equipment thefts and other pilfering, indicates that the wild man regularly traveled a 200-mile loop and that often he went as far as 400 miles in his journeys through the wilderness.

Bill Moreland had two somewhat similar versions of how he came to the mountains of north Idaho. The tales differ principally in magnitude. His official statement to the courts in Orofino where he was tried for breaking into Forest Service cabins was as follows:

"I was born October 1, 1900, in Wolfe County near Landsaw, Kentucky. I believe my father's name was W.L. Moreland and my mother's name was Emmie Moreland. Her maiden name was Emmie Stone. My mother is dead and I have not heard from my father in over 20 years. I had a sister whom I believe was named Stella and the last I knew of her she was living in Morgan County. I have no other sisters or brothers.

"My parents separated when I was small and my father took my sister and my mother took me. When I was about nine years old I went with my grandmother Stone to live in Indiana and later moved across the river to Covington, Kentucky.

"I went to school to about the fifth grade.

"Soon after going to Covington, my grandmother became sick and I was taken by some other people and lived with them until I was 12 years old. About this time they put me in the reform school for running away from home. I stayed about one month and ran away and was soon picked up by the railroad police and put in another one. I believe I was in reform schools in Lancaster, Ohio, and in Michigan and Wisconsin and also Texas. This kept up until I was about 16 years old when I went to work for the Stevens Lumber Company in Wells, Michigan, or Northland, Michigan.

"I then went to Sault Ste Marie and worked on an ore boat and finally reached Pennsylvania where I stowed away on a McCormick Steamship Company boat





Bill Moreland made his home for 13 years in this extremely rugged Idaho snow country.



At times the snow piled up to 50 feet deep and did not disappear until July.

eight or ten days, then to Klamath Falls, then on to another place I don't remember the name, then back to Wishram, then to Pendleton, probably to Pasco, next to Umatilla and Lewiston, Idaho, but there was very little work anywhere. I drifted like this for about four years.

"I hired out in Lewiston, I think, to a sheepman who took me to a place on the Snake River near Mountain Home. This was about the time Roosevelt was being elected. I stayed at this place for about 42 days.

"When I left the sheep ranch near Mountain Home, I went to a mining town (probably Atlanta), bought tobacco and went up to a lookout and started traveling in the mountains. I already had maps that I took near Avery, Idaho, when I saw this cabin and the man was washing his clothes. When he left I went into the cabin,

*(Continued on page 64)*

which took to sea and I was not discovered until somewhere off the New Jersey coast and they put me to work washing dishes. I don't know where we went but about three months later I landed in Seattle.

"I worked in Seattle at dishwashing and various other jobs and also worked on a Coast Guard vessel for about one week. I stayed around Seattle for about a year or more, then caught a freight train and was picked up in St. Paul.

"I hit the freight trains again and went to Tacoma. My work in Tacoma was hauling fuel, putting wood in basements and mowing lawns. I lived between two bridges near a sawmill. I think this was about the time Hoover was president. Times were tough and I could only get 25 cents for unloading a full truckload of wood.

"When I left, I went to Vancouver then on to a place called Wishram where I stayed about a week, then to Bend, Oregon, where I bummed around town



In historic times not even Indians lived in this country, the author says.



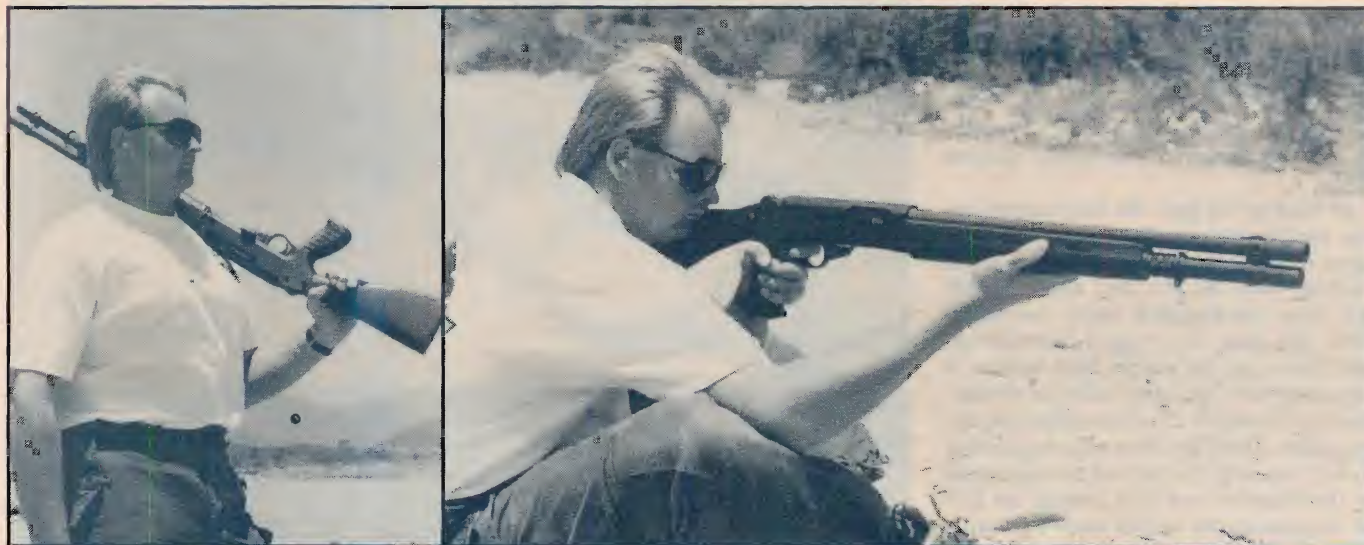
Franchi's semiautomatic LAW 12 shotgun is some 2 pounds lighter than its predecessor, the SPAS 12. Shown here with some of the 2 $\frac{3}{4}$ -inch 12 gauge ammunition tested with it, the weapon is fitted with a "duckbill" diverter shot spreader which extends the length of the barrel.



Shooters found the LAW 12 was easy to handle and functioned superbly with a variety of 12 gauge loads tested in it.







# LAW 12 Shotgun

*This new semiautomatic-only version of the SPAS 12 is lighter and easier to use . . .*

By Jim Benson

**F**RANCHI's new LAW 12 semiautomatic assault shotgun, imported by Firearms Import & Export Corp. (F.I.E.), is a lightweight variation of the famous SPAS 12 semiautomatic/pump shotgun.

More than 2 pounds lighter than the SPAS 12 (which weighs 9½ pounds empty) the LAW 12 is simpler to operate and can use all SPAS 12 accessories. The LAW 12 is available in fixed stock only but after purchase it can be converted to a folding stock weapon with a folding stock purchased separately (this is required under new BATF regulations).

Like the SPAS 12, the LAW 12 fires any type of 2¾-inch 12 gauge ammunition but requires sufficient power in the loads used in it to properly cycle the action. Only good quality factory ammunition or handloads that meet factory ammunition specifications are recommended. It will hold 8 shells in its magazine plus one in the chamber. The LAW 12 will *not* fire 3-inch 12 gauge shells, only 2¾-inch shells.

The fixed stock and forend are European walnut. The pistol grip is nylon resin. The forearm is ventilated.

The LAW 12 has a number of attractive features which will help to make it, as Duncan Long, in this new book *Street-sweepers* (see review in this issue) notes, "one of the major contenders on the semiauto combat shotgun market. Its gas operation (to minimize recoil), light weight and wide range of accessories available for

it promise to help it gain quick acceptance among those needing such a weapon."

There are two safeties on the LAW 12, a carry safety for general use and a quick

employment safety for competition and tactical situations. One or both of them may be used at all times. The carry safety is a large lever on the right side of the trigger guard. It points forward to an "F" for fire position and must be rotated 180 degrees rearward to point at a large "S" for "ON SAFE" position. This is the main safety and it blocks the hammer. It can be used until you are ready to fire the weapon. With the bolt closed and hammer uncocked, engaging the carry safety prevents opening the bolt and cocking the gun.

The quick employment safety is a blade on the left side of the trigger guard. It is also moved forward to place it in the fire position and back for safe position. This safety disconnects the trigger. It can be moved to the fire position with a flick of a finger and provides safety even when instant readiness is needed. This safety can also be employed as a backup to the main safety, being set in the safe position at the same time as the carry safety so it will be



The LAW 12, right, is sold in fixed stock model only but can be converted after purchase to use a folding stock like that of its predecessor, the heavier, more complicated SPAS 12.



Forend and buttstock are European walnut. Pistol grip is nylon resin.

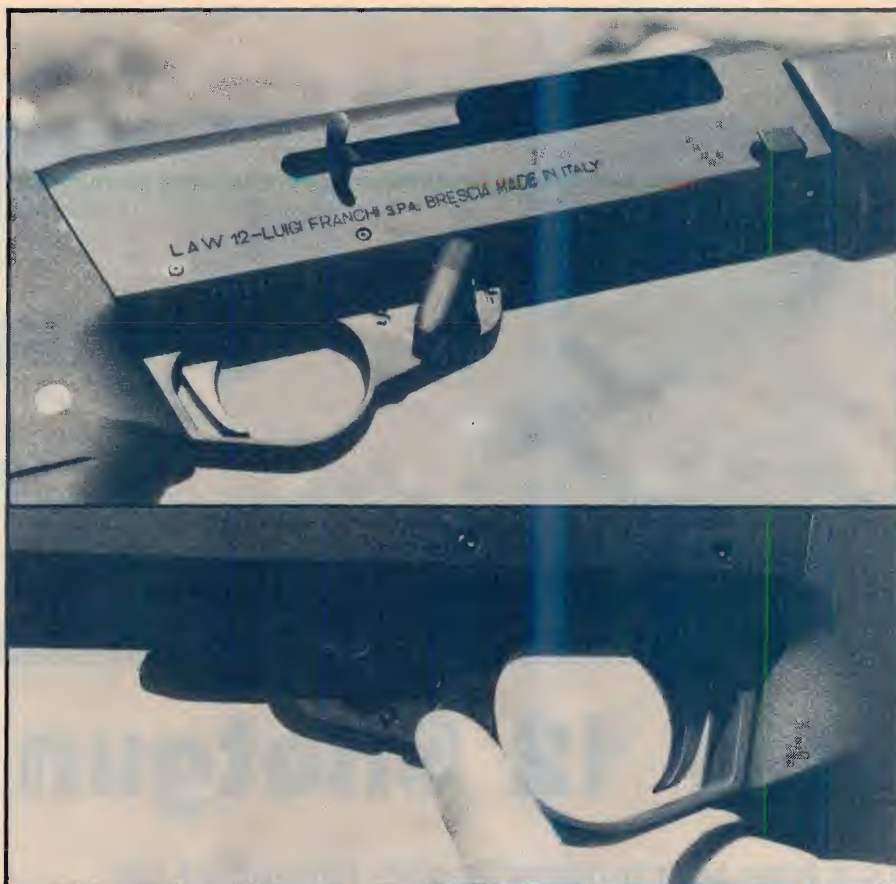


## LAW 12 Shotgun

on safe when the carry safety is moved to the fire position. Additionally, the quick employment safety unlocks the bolt. Moving it to the safe position allows the bolt to be unlocked and opened without firing.

In loading the gun, the shell carrier has two spring tensions. It is much easier to move with the hammer cocked. For easier loading, cock the gun and close the bolt but leave the chamber empty for safety. With this done, the shotgun is turned upside down and the carrier latch bottom is depressed with the carry safety in the safe position to load 8 2¼-inch shells into the magazine. There are three ways to chamber a shell: opening the bolt and moving a shell in the chamber and then closing the bolt by depressing the carrier latch bottom on the left side of the receiver above the shell carrier; by operating the bolt to chamber a shell from the magazine; or by repeating the first procedure while depressing the magazine cutoff button, on the receiver's right side above the shell carrier, to keep the magazine full.

The LAW 12 can be carried with the bolt open, chamber empty and magazine loaded and still be instantly readied for firing by engaging the magazine cut-off button. With the bolt open and locked, strike a fairly hard glancing blow to the magazine cut-off button and a shell will be released from the magazine and chambered as the bolt closes. Unless the carry safety is in the safe position, the shotgun is then ready to fire. Use of the magazine cut-off button also allows



The main safety is the carry safety, a knob that points forward for "fire" and 180 degrees to the rear for the "on safe" position. On the opposite (right) side of the trigger guard is the quick employment safety which is moved forward for the "fire" position and back for "safe."

chambering of different ammunition than that in the magazine without unloading the magazine first.

The LAW 12 comes with a thread protector on the muzzle and this can be removed to install Franchi Rapid chokes (optional full or modified) or a "duckbill" diverter shot spreader. These add about 2½ inches of effective barrel length. The LAW 12 can also be fitted with the same scope mount as the SPAS 12.

**Field Testing**—Loaned a fixed stock LAW 12 from F.I.E., several ASG shooters journeyed to a legal shooting area in the mountains of southern California to try a variety of ammunition out in this new weapon. We took along Federal 00 and 000 buckshot loads and hollow point slugs, Winchester Super Double X Magnum #2 shot shells and hollow point rifled slugs. Remington #4 ShurShot Field Loads, and some Fiocchi #6 Game Loads.

Approximately 70 shells of this ammunition were fired through the LAW 12 by three shooters. The shotgun functioned superbly with only two or three of the lightweight Fiocchi shells jamming when fired by a woman shooter new to firing shotguns. We attributed these to the fact she was not keeping the butt pressed firmly against her shoulder when firing for the necessary firm resistance to recoil.

Of course our testing was limited and there wasn't time for long-term shooting and observation of the LAW 12. But those of us who fired this weapon were pleased with its handling characteristics and performance and we concluded that the LAW 12 is among the best of this type of shotgun we have seen.

Soon to be available in this country will be the SAS 12 pump shotgun version from Franchi and imported by F.I.E. For more information, see your gun dealer or contact F.I.E. ●



This thread protector quickly screws off to be replaced with optional full or modified chokes or shot diverter.



Loading is easiest with the gun cocked. Make sure safety is on and chamber is empty.

### Franchi LAW 12 Semiautomatic Shotgun: Tech Specs

Finish .....	Matte black
Caliber .....	12 gauge, 2¼-inch shells only
Barrel length .....	21½ inches
Overall length .....	41½ inches with fixed stock
Action/operation .....	Semiautomatic, gas
Weight, empty .....	7 lbs., 4 ounces
Capacity .....	8 plus 1 in chamber
Price, suggested retail .....	\$649.95
Manufacturer .....	Luigi Franchi s.p.a. Brescia, Italy
Importer .....	F.I.E., Dept. ASG, P.O. Box 4866, Hialeah, FL 33014; (305) 685-5966





Though new to firing a shotgun, this woman shooter had little trouble adjusting to the LAW 12. Here she is shooting Remington ShurShot Field Loads.

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## Tactical Communications:

# Hi Power Tac-Comm

*The ICOM IC-28A/H base station mobile VHF receiver . . .*

By J. Lincoln Thorner



Its size, great range and microprocessor-based control functions make the ICOM IC-28A a technical wonder. The higher powered 45-watt IC 28H is only slightly larger.

**W**HEN assessing your communication needs, you or your group should pay particular attention to the need for good tactical communications (Tac-Comm) and electronic intelligence

(ELINT) gathering.

For short range and portable use, a good hand-held VHF FM transceiver, such as the ICOM IC-2AT (see the January 1987 issue of *ASG*) fills the bill. For the longer

range and power requirements of base station and vehicle mobile use, you're really going to need a larger unit, with sophistication appropriate to your needs for Command Control Communication and Intelligence (C<sup>3</sup>I). A rig that I've found that sure fills that bill is the new ICOM IC-28A/H.

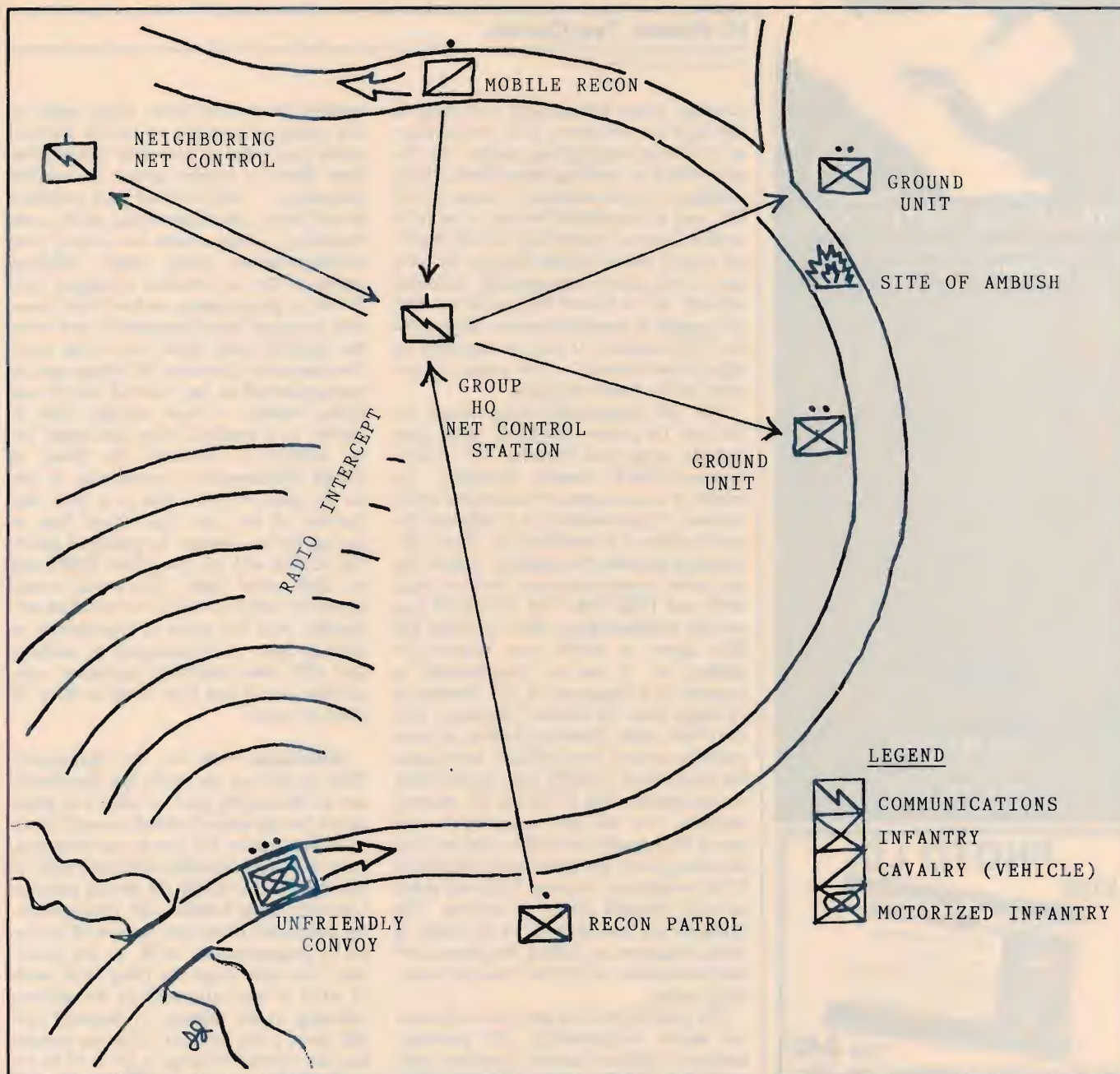
Tac-Comm is keeping in touch with other members of your group in the local area, ELINT is keeping track of the other guy's communications (and not getting caught!). For very short range, or in areas of exceptionally favorable terrain the low power of a Handie-Talkie (HT) will do fine for most of this. For your car, home, or shelter you or your group might really learn to love ICOM's 28A/H. It has a very large transceive frequency range, and a *really* wide range of receive frequencies, including many used by the military, police, fire, and other security and public services. It can hop rapidly from one frequency in its range to one or more other channels almost instantly. It is available in two models: the 28A (25 watts output), and the 28H (45 watts output), both much more powerful than any HT available. It is just about perfect for use as a net control station for communicating with any number of portable or mobile units that may be separated by intervening hills, buildings, or great distances from each



ABOVE & RIGHT—The IC-28A will easily fit in your hand and has dimensions that occupy about as much space as a .45 Government Model.







This drawing illustrates the functions of a highly flexible radio like the IC-28A/H in a group's need for Command Communications and Intelligence in a hostile environment.

other. It is also the thing to use for maintaining contact with other friendly groups, and for eavesdropping on other, possibly unfriendly, Tac-Comm users in your area.

The IC-28A/H is almost unbelievably small and lightweight. It is an FM transceiver that is designed to transmit on any of the thousands of 5 kHz channels in the 140.1 to 150 MHz VHF band. It is intended to be used by Amateur Radio operators in the 144 to 148 MHz 2-meter band, and requires an Amateur Radio license issued by the FCC to operate the transmitter in this band, and licenses issued by the appropriate military agencies involved in the Military Affiliate Radio System and the Civil Air Patrol to operate on the designated military frequencies above and below the Ham 2-meter band. In the event of emergencies endangering

life or property it may be permitted for non-licensed persons to operate on these frequencies. It is perfectly legal, at any time, for anyone to *listen* on these frequencies, and on the receive only channels that the IC-28A/H copies, all the way from 138 to 174 MHz! There is plenty to listen to in this range. I've copied local police and security agencies, public services, commercial vehicles (including network remotes transmitting unedited news reports from crime scenes, and other "on location" sites), and I've found that the Strategic Air Command is *very* active just north of 148 MHz in their ground operations like search and rescue, maintenance, and security.

**Ham License**—To make full use of this rig, you really should get an Amateur

Radio license. This will open up Ham repeaters to your use, and a wide range of emergency and public service networks, and the training they afford. For more information on Amateur licensure I suggest that you contact the national Ham organization, the American Radio Relay League, 225 Main Street, Newington, CT 06111.

The IC-28A measures 140mm by 50mm by 133mm or about 5½ by 2 by 5 inches or a little bit bigger than four packs of Marlboros. The IC-28H is just a bit bigger (that is the 45-watt version). It weighs only 0.95 kgs (around 2 pounds) and uses a multi-function liquid crystal display for frequency and memory channel readout, power output and signal strength metering, and numerous other control function displays. The LCD display is backlit with a





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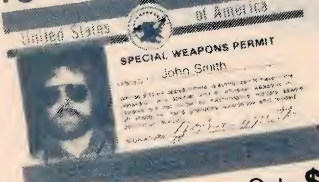
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## Hi Power Tac-Comm

(Continued from page 31)

pleasant green background that dims in low light environments. This combination of LCD and backlighting makes the display visible in anything from direct, bright sunlight to total darkness. It uses 12-volt DC, and so is suitable for use in an automobile, from an emergency 12-volt electrical source like a storage battery, or from any of the many commercially available 120-volt AC to 12-volt DC converters that can supply 6 amperes current (higher for the 28H version). It can be operated on high power transmit, or low power, to conserve power source capacity.

The two remarkable things about the 28A are its almost incredible small size, and the range and diversity of its microprocessor-based control functions. To enable it to use repeater (automatic relay) stations, it can transmit on a different frequency than it is receiving on. This is the standard practice for amateur, police, fire and other communications systems using VHF and UHF FM. The IC-28A/H can use the standard Ham offset of either 600 kHz above or below your receive frequency, or it can be programmed to transmit at a frequency at any distance in its range from the receive frequency. This can make radio direction finding on your portable stations very difficult, and makes the other fellow's ELINT that much harder to accomplish. The IC-28 has 21 memory channels that can be programmed with any of the transmit or receive options, and the microphone has up or down buttons on it that enable you to jump from one channel and transmit option to another. The channels do *not* have to be in order of rising frequency or falling frequency, but can be anywhere within its receive or transmit range.

The possibilities this presents to the user are almost inexhaustible. For example, monitor a military channel, jump in a split second to a Ham repeater and talk to any

number of stations there, jump again to one group of portable or mobile stations under your control, and relay information from them to another group on another frequency . . . and you and your portables do not have to be transmitting on the same frequency, which makes monitoring your communications pretty tough. Another option is for two stations equipped with IC-28s to pre-program each of their channels to agreed upon frequencies, and every few seconds jump from one to the next. The frequency and order of change can be reprogrammed at any interval you choose (daily, weekly, or even hourly). This is similar to a method being developed for the military to minimize the threat of hostile interference or monitoring. It can do the same for you, and at a truly tiny fraction of the cost that Uncle Sam is paying for his system. Speaking of price, the IC-28A will run you about \$380, and the 28H about \$400. This would sound expensive only to a Ham or to someone unfamiliar with the price of commercial or military gear. A commercial or military unit with even minimally equivalent capabilities would cost from three to 10 or 15 times as much.

**Drawbacks**—Now for the drawbacks! Well, to tell you the truth, the drawbacks are so thoroughly part of what's so great about this rig that it is hard to really think of them as faults. I'll give you an example, I am thoroughly familiar with what kind of capabilities the IC-28A/H should possess. I am also fairly familiar with microprocessor controlled electronic devices (if you've got a programmable VCR, so are you!), and I was able to get the thing to do most of what it was supposed to do without referring to the manual. It required and still does, a fair amount of button punching and control twisting to get it to do its stuff. There is a lot of try this, and try that,



The ICOM IC-28H is a small, powerful, sophisticated radio. A generation ago a roomful of radios would have been needed to accomplish what it is capable of (Courtesy of ICOM America).



until you get it right. It is not an easy rig to put through its paces, particularly for a non-expert. If I want to get a complex command function executed right the first time, I refer to the manual (tried it for a couple of weeks before I resorted to this . . . very embarrassing for an "expert," ha, ha!). The reasons are quite simple: because of the many, many control options open to you, and because of the really tiny size of the front panel, and because the frequency/control display is large and highly visible the controls are almost all multi, multi-function, sometimes requiring a series of manipulations to achieve a desired operation. The small controls are labeled, but their functions are not always obvious. I highly recommend working from the manual, and I strongly caution you to not try anything fancy with it while you are driving, if you are using it mobile.

The saving grace is that *all* of the operating parameters can be pre-programmed into any or all of the memory channels, and they are easy to switch between without even looking at the rig. It is capable of scanning its memories, or of scanning all the frequencies in its range (it will stop on a channel with a signal on it, and either continue on when it stops, or

stay, at your option). This last is a good way of finding what frequencies are being used, and by who, in your area. There is also an option available that will keep your receiver squelched (quiet) unless it receives a signal with a digital code on it that it is programmed to accept. In other words, if you want to authenticate incoming communications you have only to set one of 100,000 digital codes available on yours, and the other fellows's IC-28A/H and you will copy *only* signals from him. The codes can be changed as often as you like, and are programmed into individual memories, so you can maintain your security needs among several stations or nets.

**Satisfaction**—I used the IC-28A for more than a month and had a ball! It is a very satisfactory rig to use. I tested the power output using a precision BIRD wattmeter under a variety of operating conditions and frequencies. Under all but the worst of operating conditions the output was closer to 30 watts than 25. The rig tolerates fairly bad antenna conditions (I tested it up to an SWR of up to 3.75:1, and the power never fell below 24 watts anywhere within its operating range), and using a simple mobile antenna mounted

inside an apartment, on a hot air unit, on the 19th floor (about 190 feet above sea level) I was able to maintain reliable communications over a 40- to 50-mile range. Your results will vary with terrain, antenna quality, and height above surrounding terrain, but this is fairly typical. Under favorable atmospheric conditions I was able to communicate with stations more than 150 miles away. I have used ICOM communications gear for many years and have always found it to be reliable, cost effective, and the manufacturer prompt and reasonable with repairs and technical assistance. The IC-28A/H is no exception, and I recommend it highly. For more information contact ICOM America, Inc., Dept. ASG, 2380 116th Avenue NE, Bellevue, WA 98004; telephone (206) 454-7619. It is available from any Amateur Radio retail outlet, a list of which can be found in any issue of the American Radio Relay League's magazine QST, or from ICOM. Two dealers that I have found reliable are: Amateur Electronic Supply, 4828 W. Fond du Lac Avenue, Milwaukee, WI 53216; Telephone (800) 558-0411. Also: Barry Electronics Corp., 512 Broadway, New York, NY 10012; Telephone (212) 924-7000. ●

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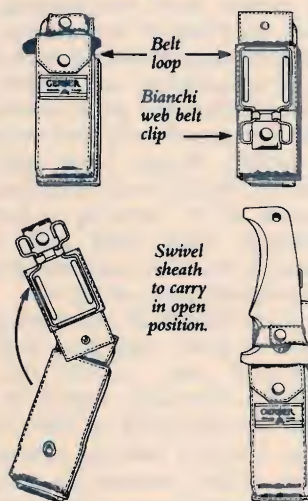
Knife shown half size.

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Concealed:

# Carrying Handguns For Self Defense

*An array of problems can result from unauthorized carry, but one wonders about the consequences of being unarmed at the wrong time . . .*

By Ian R. Bourdo



An individual with a larger frame and build, with careful selection of holster and clothing, can conceal extremely well a weapon of considerable size. The Ruger .357 with 6-inch barrel is almost undetectable beneath the lightweight jacket.

**I**N ANY realistic effort to be prepared to the fullest extent to provide for the well-being of oneself and loved ones you have to consider the carrying of concealed weapons. In contemplating going armed, the responsible individual is confronted by a concern about encountering the police and the potential consequences. Granted, an array of problems can result, however at least occasionally, one wonders about the consideration of a police encounter versus being unarmed at the most wrong of times.

Myself, though I am legal in going armed, thanks to my occupation, I am well aware of the sweating a body can go through when faced with a possible assault, etc. when unarmed, more so when accompanied by a loved one.

Some individuals rely upon some variation of knife, stun gun, walking stick, chemical mace, or the like, for self defense. Personally, I would be the last to cast any aspersions on these weapons, in fact, I carry a bali-song constantly. However, despite considerable training in the martial arts, and good physical condition, that knife is only a back-up. Let's face it,

in hard-core reality in this day and age, the firearm is the weapon for self defense.

In electing to carry a firearm (obviously a handgun) for self defense one creates a

situation which calls for serious thought. There are a large number of considerations, not the least of which is the fact that, unless you're in law enforcement, the concealed carrying of a pistol is usually very much against the law.

In the particular city where I am employed the local concealed weapons laws are taken directly from state code. I'm sure this is the case in most places, and that most applicable ordinances are basically similar. I strongly suggest you trot down to the police department under whose jurisdiction you spend most of your time and get copies of their weapons ordinances.

Some of the outstanding aspects of the ordinances I deal with are: No person shall knowingly, carry concealed or have concealed on his person or concealed ready at hand any deadly weapon.

Now note that it's been my experience that to apply the definition of "deadly weapon" to say, a knife or stick type weapon, the police have to demonstrate "criminality of intent" and that the weapon is essentially designed to function as a weapon, i.e.: it's not a tool etc. Obviously a pistol, in the eyes of the law is, virtually without exclusion, a weapon.

Among affirmative defenses are listed: A) It's carried for defensive purposes going to or from business if the business renders you unusually susceptible to attack such as would justify a prudent man in going armed. B) Carrying/keeping the weapon ready at hand for lawful purpose in your home. C) Carrying the weapon for defensive purposes while you're engaged in lawful activity when you have reasonable cause to fear criminal attack upon yourself, your family or home, such case as would justify a prudent man in going armed.

I find the last somewhat amusing in it's vague generalities. D) Transporting the weapon in a motor vehicle in a lawful condition for lawful purpose.

The major problem here is that viola-



The 2-inch .38 in a shoulder holster is compact enough to conceal on individuals with small builds. Here the upside-down carry conceals the over-size grips on this particular weapon. The problem here is to allow for carrying of spare ammunition. One might carry extra rounds in a vehicle or in a slide-off belt loop set-up. Pouches on the belt for loaders would show through this clothing.



tions of these ordinances are first degree misdemeanors. IF the weapon is not a fire-arm which is loaded, or for which you have ammunition. So, the whole thing is a moot point. As far as the law is concerned, you can't carry a loaded pistol legally in most instances.

Where does this leave the individual concerned about his/her safety on the street? Granted, a good knife, or stick, with tons of practice, may work, but maybe it won't. I'd rather not stake my wife's safety on the odds. Chances are that, faced with the facts of crime in the world today, you may sooner or later go in violation of the law yourself, if necessary to survive.

The key to dealing with the legal hassles is to avoid them. If you conduct yourself in a quiet law-abiding manner, the police will have no cause to notice you, much less confront you. If they never stop you at all, they'll never know you're armed.

You're carrying for self defense. No one needs to see your weapon, hear about it, nor do you need to get falling down drunk while you're armed. A drunk/disorderly arrest would be rather disastrous for you while packing a .357 2-inch. Your condition would totally destroy any arguments about your prudence or responsibility.

All this also applies to basic common sense precautions like having a valid, up to date driver's license and tags on your car. Even if you do get stopped, in your auto, if you're sober, cooperate and everything is in order, the police have no likely reason to arrest you and thus search you and/or your car.

Certainly you want to avoid accidental discovery of your weapon. The basic key here is to give serious, objective thought to what your *real* needs are, weapon and equipment-wise. My personal arms for concealed carry are many and varied, with an accompanying array of holsters.

Purchase quality weapons only, and make sure the weapon, ammunition, and magazines/loaders are all totally reliable. *Practice.* Ensure your skill. If you are skilled with your weapon it follows you won't need to carry a larger, heavier weapon to compensate for poor shot placement.

In buying holsters, again go for quality. In order to comfortably carry a large pistol for any length of time you need a holster of the best design and construction you can find. Forget the exotic stuff like wallet holsters unless it fills a specific need. If you have a limited budget, or have found a particular pistol that suits you, buy a number of holsters for that gun—leg, belt, shoulder, etc.

Consider too your usual mode of dress. Off duty, I normally wear jeans, boots, and for pockets, a jacket of some sort. This being so my ability to conceal and secure weapons is unlike that of the individual who wears a sport coat and slacks in an office all day.



An inside-the-pants holster on a larger framed person can work with even heavier small pistols. The .380 here is concealed and secure until needed.

For a smaller framed person, the options for concealed carry include use of light, small caliber, small frame weapons.

Carried inconspicuously in the ankle holster are a 2-inch .38 Special revolver and a pouch with 5 extra rounds.

Your build also poses this question. At 6 feet and 180 pounds, I can easily conceal pistols that would look ludicrous hanging on a female or smaller male. Remember too, unless your weapon is a high capacity auto pistol, you'll need to stash ammo as well. That generally means in a pocket somewhere.

Travel poses a whole new set of problems. Where are you going, how long will you be gone, who is going with you, on and on. Think about what clothes you'll wear

on the trip. What sort of trip is it? If you're camping your needs will be different from what a two week motel-oriented trip calls for. If formal dining and such will come up, you again better try on what you think you'll take. Try to cover every aspect. Remember too, that you often can't safely stash a weapon in a motel room or in a parking lot in your vehicle. Once on the road, you and your weapon(s) will likely be inseparable.

(Continued on page 68)



Qualitec International:

# New Condition Gas Masks

*KM-9A1, M76 respirators for NBC protection . . .*

Staff Report



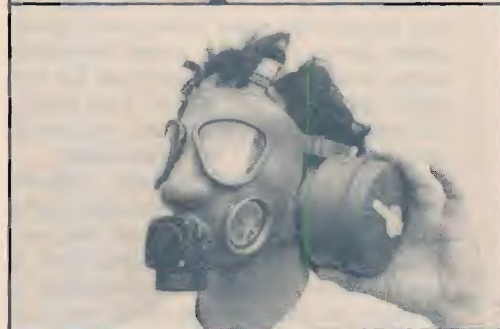
The KM-9A1, top, and M76 gas masks from Qualitec International.

**Q**UALITEC International Inc., a firm supplying equipment for the law enforcement and military as well as civilian markets, is selling two new condition NBC protection masks and filters.

The KM-9A1 is a Korean-made NBC mask designed to protect the eyes and respiratory tract against chemical, biological and radiation agents. The major com-

ponents of the protective system are the facepiece, active carbon canister and military nylon carry bag. Price is \$99 ppd.

The mask is designed for quick and easy fitting with a head harness consisting of six adjustable straps for a tight seal. The chemical in the replaceable canister protects against war gases, radioactive dust, biological war substances, smoke, tear gas,



The KM-9A1 and M76 masks are both side-fitting canister masks.

dust and toxic gases from fires except carbon monoxide and ammonia.

The facepiece is composed of a molded rubber faceblank, eyepieces, outlet valve assembly, tab assemblies, head harness assembly, noseclip and canister mounting. The carrier is water repellent olive-drab nylon duck. Weight of the units is approximately 2½ pounds. The mask is made in three sizes. It has a drinking tube.

The M76 gas mask was designed for military, civil defense and police use and protects the respiratory organs against all known war gases, tear gas, biological agents and radioactive particles while also protecting the eyes and face. A good seal is obtained with the 6-point head harness.

The facepiece is soft and comfortable natural rubber, following the contours of the face. The metal canister is screw-fitting, 60mm diameter, right-hand threaded containing 260 cubic centimeters of whetlerite charcoal. The M76 is also made in three different sizes, and is made in Finland, with or without a speech diaphragm. Overall weight is about 1.75 pounds. Price w/2 canisters: \$159.95.

For more information or ordering contact Qualitec International Inc., Dept. ASG, P.O. Box 356, West New York, NJ 07093; (201) 945-0940. ●



## SELECT FIRE 10/22

by Wayne Thornburgh



The TEK Full Auto Conversion

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A reliable select fire conversion for the Ruger 10/22 has eluded Class III weapons enthusiasts—until now. The TEK Gun Works conversion method described in this volume may well be the *optimum design* for converting the 10/22 to select fire. Additionally, it is reasonably simple when compared to other methods being touted in the market place—methods that don't work as well. Softcover, illustrated.

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Step-by-step instructions for converting this popular sporting and survival rifle to FULL-AUTO. Auto-Sears explained with reviews of several brands. PLUS full machinist's drawings for a homemade Auto-Sear. Even if you don't plan to convert your AR-15, you owe it to yourself to know how. The day may come when a well armed populace will mean the difference between freedom and tyranny. 5½x8½, softcover, 32 pages, illustrated.

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### FULL AUTO KG-99 by Gary Hill

KG-99 owners, your book has arrived. It's been a long time in the waiting but like all good things it's well worth it. A totally reliable open bolt conversion for the semiauto family of KG-99's. Covered in this manual are the conversion plans for the interdynamic KG-99, KG-99 Mini, Intratec TEC-9 and TEC-9 Mini. Complete with many photographs, machinist drawings and exploded views with parts listings and a step-by-step easy to understand procedure. 5½x8½, softcover, 48 pages.

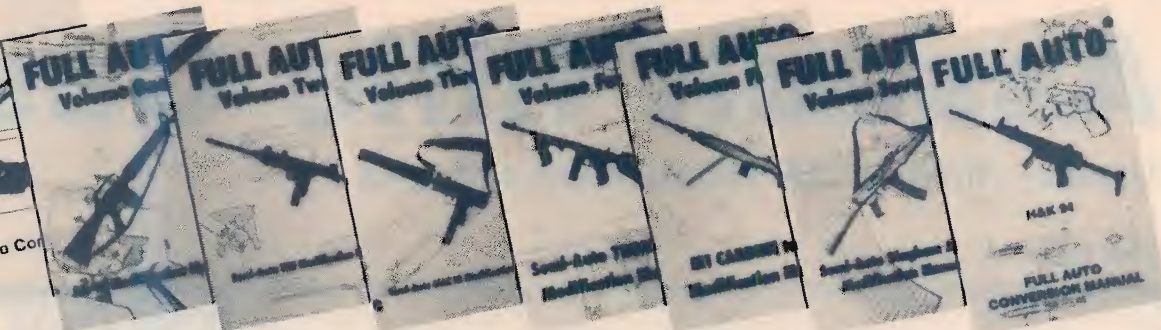
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Now, the civilian-legal cousins of the G3, the H&K 91/93 can be converted to selective fire, thus allowing the civilian H&K owner to duplicate the function of a factory original G3. This isn't a rinky-dink kitchen table conversion, but a mechanically sound method devised and executed by a professional machinist with a thorough knowledge of gunsmithing. Virtually every phase of the conversion process is explained in detail. 5½x8½, softcover, 36 pages.

HK 91/93 ..... \$8.00

## Full Auto



### FULL AUTO, VOLUME TWO

**Semiauto UZI Modification Manual**  
This revised edition covers two methods of conversion, one for a drop-in conversion to full-auto only and one for permanent conversion to selective fire. Every step is shown in large, clear photos and concise, easy to understand text. Remember, due to federal law, Israeli-made full-auto UZI's will never be available to collectors, but the semiauto version may be converted. 5½x8½, softcover, 34 pages, profusely illustrated.

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### FULL AUTO, VOLUME FOUR Semiauto Thompson M27 A-1 Modification Manual

The Thompson semiauto Model 27 A-1 is extremely popular among civilians and is one of the easiest semiautos to convert to FULL-AUTO. There are no extra parts to buy and only three original parts need to be altered. Complete machinist's drawings illustrate the alterations, which can be done in a basic machine shop. Easily understood text. 5½x8½, softcover, 24 pages, illustrated, including a history of the Thompson SMG.

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### FULL AUTO, VOLUME FIVE M1 to M2 Carbine Modification Manual

Since the M2 is a direct descendant of the M1, the M1 can easily be converted to full-auto by a mere substitution of parts and some minor alterations in the stock and trigger housing. This book contains all the information needed for the conversion: basic differences between the M1 and M2, the parts needed are listed and shown, even full machinist's drawings for converting M1 parts should certain M2 parts prove difficult to find. 5½x8½, softcover, 28 pages, fully illustrated.

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### FULL AUTO, VOLUME THREE Semiauto MAC 10 Modification Manual

This manual presents six different methods of converting the semiauto MAC 10 to FULL-AUTO. These methods range from very simple, full-auto only conversions to more involved, selective fire versions. All modifications are easy and require no difficult machining operations. Conversion techniques range from the mere removal of metal to the addition of simple, removable parts. 5½x8½, softcover, 52 pages, profusely illustrated.

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### FULL AUTO, VOLUME SEVEN Semiauto Bingham AK-22 Modification Manual

This little AK-47 look-alike in .22 rimfire is an excellent choice for conversion to selective fire due to its reliability of functioning, simplicity of design and the low cost of .22 LR ammo. Virtually every step of the conversion is shown in detail, along with clear, concise text and full machinist's drawings. Enjoy a full-auto, cheap to feed .22 LR AK look-alike! 5½x8½, softcover, 32 pages, illustrated.

022 ..... \$6.00

### FULL AUTO HK 94 Full Auto Conversion Manual

The HK 94 A2/A3 9mm carbines from Heckler and Koch in West Germany are civilian versions of the military MP5 submachine gun used by elite counterterrorist units everywhere. The HK 94 constructed of space age materials and manufacturing technology, is lightweight, low recoiling, hard hitting at 800 rpm as provided with this conversion. Profusely illustrated with all necessary information, photographs, fully dimensioned machinist drawings and detailed sequence drawings for selective fire conversion. 5½x8½, softcover, 56 pages.

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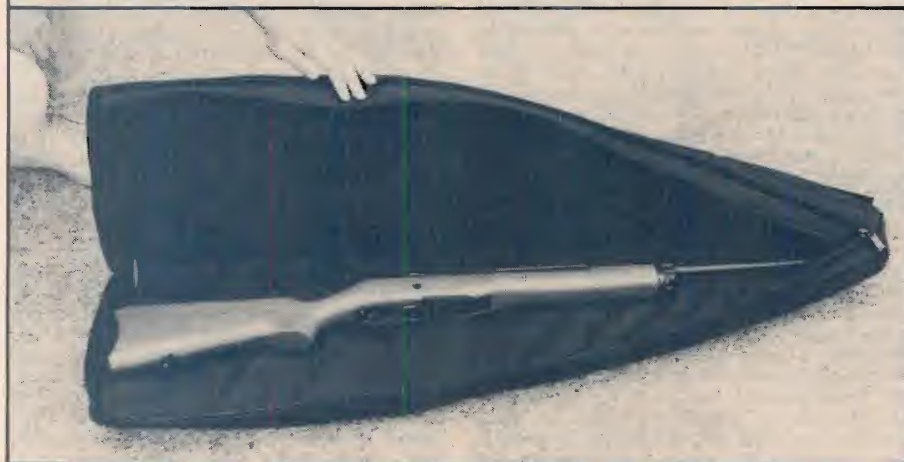


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Staff Report



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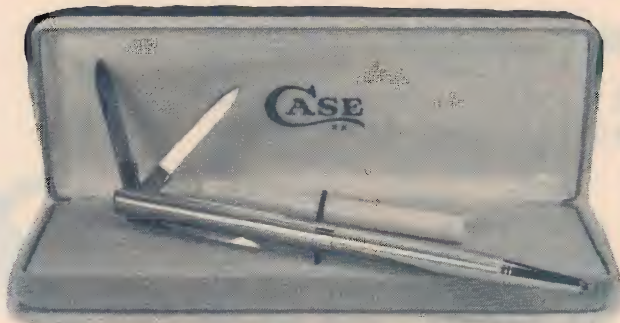
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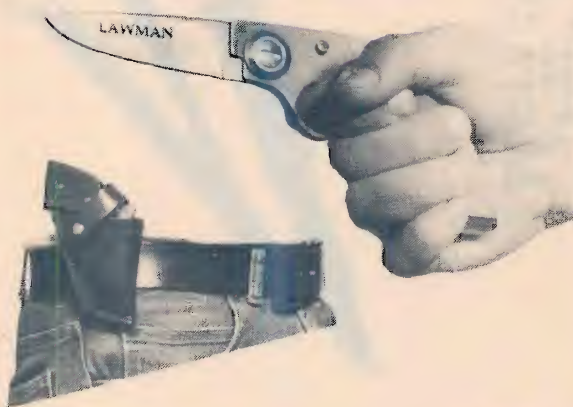


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Staff Report



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bon steel and very sharp. They'll take an edge, hold it quite a while and then sharpen easily.

The grandfathers pukka measures 7 inches overall with a 3-inch blade. The grandmothers pukka is 5 9/16 inches overall with a 2 5/16-inch blade. Each knife comes complete with soft leather sheath and instructions for care and sharpening from Qualitec International Inc., Dept. ASG, P.O. Box 356, West New York, NJ 07093; (201) 945-0940. For more information or ordering, contact Qualitec International. ●

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Staff Report

**P**REPARING for disaster could only be more effective by getting a jump on the impending situation.

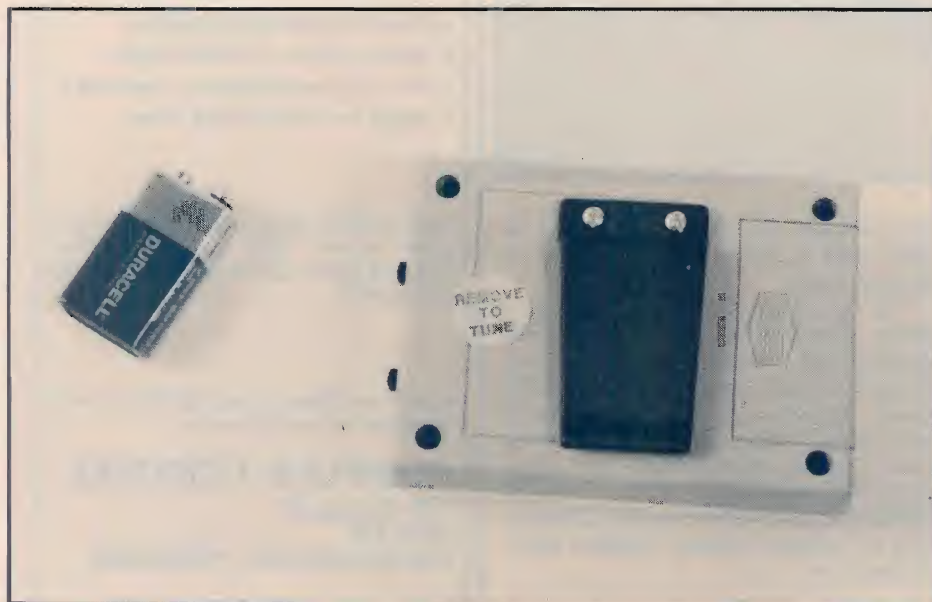
The function of the Emergency Broadcasting System (EBS) is to alert the public to dangers. It covers such phenomena as nuclear attack, tornados, hurricanes, floods, tidal waves, earthquakes, icing conditions, heavy snows, widespread fires, discharge of toxic gases and industrial explosions.

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*This handy cloth could be a lifesaver*

Staff report



**B**ASIC survival tips are illustrated on this convenient, lightweight 30- by 30-inch polyester cloth. The Survival Bandana utilizes 13 panels to display possible dangers the wilderness traveler may encounter and applicable solutions in dealing with them.

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# Behind The Hype: The Real Survivalists

*The media's survivalist gets attention, sells papers, makes authorities out of glib writers . . .*

By Kevin Kilpatrick

*This article is reprinted with permission from the Journal of Civil Defense, April 1987 issue. The Journal is published by the American Civil Defense Association, a non-profit organization advocating "Peace Through Preparedness" which has long supported the concept and philosophy of survivalism. We wanted to reproduce it here, not because it is obviously a pat on our collective backs, but to show what other people not directly associated with ASG think of the idea of survivalism. The Journal, due to its non-profit nature, has*

*faced bankruptcy a number of times and at this writing, is on the verge of folding once again. TACDA is asking for donations to keep this very informative and outspoken advocate for civil defense alive. We urge you to subscribe for only \$12 a year or \$22 for two years and or give whatever amount of money you can afford. Send your subscription/donation to: the Journal of Civil Defense, P.O. Box 910, Starke, FL 32091; phone (904) 964-5397—The editors.*



FROM a reporter's point of view, having a suitable water supply in a shelter is hardly a newsworthy item. Neither is an ample supply of emergency food. Or an emergency medicine chest. Or bunks, or commode, or ventilation, or emergency exit, or any of the drab items that are needed to keep body and soul together in a shelter situation.

But guns! Now, there we have something. Guns are dramatic. They kill people. They make people frightened. They ring through the countryside. Noise. Action. Crime. Murder. Guns can make a story when there really isn't any story. And what is important to any newsman worth his salt? The story.

So, any looney in the boonies who goes berserk with a firearm is immediately tagged a "survivalist." The survivalist becomes a gun-toting maverick who shoots up the landscape and browbeats cops and caballeros alike. A hero of the Dillinger type. Dress up the copy. Dramatize. To hell with the facts.

That's the media's survivalist. It gets attention, helps with ratings, sells papers, makes authorities out of glib writers who don't know a punka from their pinky.

In a situation where you might want to keep intruders out, however, security ("guns" if you will) is needed. The White House is guarded. FEMA headquarters is guarded. Mount Weather, the VIP shelter outside Washington, is guarded. Guns are part of the system. In a post-attack environment, where marauders and just desperate people who have failed to plan are on the loose, the survivalist had better have his weapons or his life expectancy could be measured in minutes. They are fully as important as his shelter, his food, his water and his other supplies and equipment.

But, we are told, in Switzerland people don't stock guns for shelter protection. Let's remember that Swiss preparedness—its system of shelters and underground hospitals and other installations—means that there is no denial of protection for the general population. There is an orderly plan for shelter occupation. Once this is accomplished in the "land of opportunity" the survivalist will no longer need his guns for defense. Let's remember too that in Switzerland every able-bodied man (except for the unfit and conscientious objectors) is a soldier and keeps his weapon ready to use for his 30 years of military service.

What is a survivalist? Six years ago in the *Journal of Civil Defense* the April 1981 editorial had this to say:

A survivalist is a person who sees himself—and usually his family and friends—threatened by events beyond his control. By impending catastrophe. He perceives that his government is unwilling or unable to help. And despite peer ridicule he takes what deliberate steps he can to assure that



he and those about him are not wiped out by the dangers he anticipates . . .

In rejecting both apathy and defeatism the survivalist tries to arrange things so that his group can:

(1) live in a location remote from direct nuclear weapons effects and societal collapse

(2) take advantage of protection against adverse conditions (including nuclear weapons effects)

(3) have access to adequate emergency stocks of water, food, medicines and special items

(4) be equipped to provide food and other long-term survival necessities

(5) be armed for protection against marauding intruders

(6) be trained to live and survive apart from civilization

(7) take other measures necessary to contend with a hostile environment

Most of that sounds very much like what federal civil defense advocated some years ago when the program was blessed with ambitious beginnings—and probably what FEMA's new "self-help" civil defense will be publicizing.

Writer-survivalist Bruce Clayton declared in an article "Survivalists, Guns, and Civil Defense" published in the *Journal* in August 1981:

"The legitimate survivalist and the legitimate Civil Defense planner should be allies . . . for one thing, the survivalist tends to take the subject of emergency preparedness seriously and personally, with the result that his knowledge of nuclear war or other survival information will frequently exceed that of the local authorities. For this reason the legitimate survivalist deserves a hearing during community survival planning.

I have recently begun a campaign to acquaint my survivalist readers with the advantages of setting aside supplies of bulk grains as emergency food for their neighbors.

Legitimate survivalists are responsible people who would like to help others become prepared. Even in a nuclear attack we can save ourselves, our loved ones, and in a growing number of cases, we can save our communities as well . . ."

Dr. Clayton doesn't sound like a "shoot-em-up" survivalist, and of course he is not. He sounds like the kind of guy that FEMA with its new "self-help" program could exploit to real advantage in spreading the word and making his love-your-neighbor kind of survivalism contagious.

In the *Journal's* October 1982 issue another survivalist expressed similar sentiments. Said Texan Richard E. Oster, Sr., a retired space engineer:

"There is a small group of civilians that have opted for the 'plan to survive' scheme. They have created their own 'DO-IT-YOURSELF Civilian Defense.' They



understand the eight effects of Nuclear Weapons and can thus defend against them. They have radiation detectors and know how to use and maintain them. They know how to build BLAST and FALLOUT Shelters. (They also know about both Chemical and Biological warfare and how to defend against them . . .) They also know how to purify water, make fire, forage for food, apply first aid, and provide the many other post disaster necessities of life.

Who are these 'DO-IT-YOURSELF Civilian Defense' folks? Some call them Survivalists . . . For every disaster (tornado, black-out, hurricane, fire or nuclear attack) there is also a small group of thieves, looters, rapists and murderers who prey on the victims. Unfortunately, they are also sometimes called survivalists.

Please do not confuse the two. The former are true Patriots of the U.S.A. The latter are just common criminals.

Your options are clear. One of the choices is a 'DO-IT-YOURSELF' approach. You will have to put some time, energy and a little money into it, but your life is well worth the effort."

These and other conscientious writers represent the *legitimate* survivalist and condemn unmercifully the gun nut as a "common criminal." A leading publication in the survival field is the *American Survival Guide*, a monthly magazine published by McMullen Publishing (P.O. Box 15690, Santa Ana, CA 92705-0690—\$21.95 per year, 12 issues). It emphasizes survival

and security—protection against marauders. And, in a desperate post-attack environment, who is to say this is wrong? The *American Survival Guide* strongly backs a two-fisted American civil defense program.

field is Live Free, which is based in Chicago, Illinois (11123 St. Lawrence Ave. Zip: 60628). It boasts chapters and members throughout the United States, holds periodic survival exercises, and also stresses survival techniques, including shelter, supplies and security. It publishes *Directions*, a newsletter (P.O. Box 1743, Harvey, IL 60426).

The new FEMA emphasis on "Self-Help"—brought on by budget doldrums and leadership initiative—in a real sense aligned with the survivalist "Do-It-Yourself" concept.

Could it be that FEMA might find in the million or so survivalists a natural and effective medium for propagating its new "Self-Help" program?

For this is where the real survivalist fits into the homeland defense picture. In the spirit of the Civil Defense Act of 1950 he could help provide the spark that would make "Self-Help" the success it deserves to be.

His emphasis on security could do with some moderation, more understanding, and less media melodrama.

Above all, his expertise in survival techniques needs to be exploited to perfect and defend the nation and *all* its people. ●



# Knife Steels



A Damascus steel knife from Tommy Lee of Lee Bench Made Knives (Courtesy of Weyer of Toledo).

*A look at the types of blade metals quality knifemakers use . . .*

By David Marshall Brahosky



The BuckMaster, top, and Cold Steel Tanto, two knives in the over-\$100 price range.

**W**HAT influences our decision when a new knife is to be purchased? Size? Shape? Cost? Or perhaps we need a knife specially designed for a specific task? Should it be a folding model, or a straight backed hunting type knife? Perhaps one with a hollow handle fits our needs. These are all valid considerations for matching a knife to the job or variety of tasks we have planned for it.

One factor overlooked by most of us is also one of the most important. What type of steel should the blade be made of? Choice of proper blade material will better accomplish whatever task we set that knife to.

Too often a pretty or bargain priced knife will appear to be just the ticket. Often the steel in such a blade is of inferior quality, or so brittle as to pose the danger of breaking under strenuous or even average use. I'm sure most of us have seen the hollow handled, saw backed knives with the nifty bottle opener cut into the area where a blade needs strength the most. I've seen these knives advertised from \$19.95 to as low as \$8.95. The metal in these blades is almost impossible to put an edge on, won't hold an edge even if you do manage to sharpen it, and is pathetically easy to bend out of shape. Not to mention the cheaply riveted, genuine imitation leather sheath. Major puncture wounds in various portions of my anatomy I don't need.

There are knives available commercially today that are capable of doing anything you could reasonably ask of an edged tool. with all the models available from different



manufacturers, how do you pick one over the others?

To answer that let's take a look at the various types of steel quality knife makers use.

As stainless steel is used in most of the commercial knives available today, we'll discuss it first. Stainless steel, or to use the more correct term, "stain-resistant" steel (no steel is truly stainless), is plain steel to which chromium has been added. In addition to making the base steel rust and stain resistant, this steel also makes for a beautifully finished blade. It is the top choice of most commercial blade makers and custom knifemakers as well.

The most popular of the stainless steels is the 400 Series. This includes 440C, very popular with custom knife makers and some commercial firms. Custom made knives of 440C are sometimes never used as knives, but rather as collectors pieces. These "art knives" cost hundreds of dollars, sometimes even running into four digit price tags.

Other steels in the 400 Series are the high carbon content steels used by manufacturers such as Buck, Gerber, Cold Steel Inc., Kershaw, Schrade, (makers of the Old Timer and Uncle Henry knives), as well as others. For example, Buck Knives use the 425 Modified Series steel, whereas Gerber is currently using 441, and 440C in some of their pocket models. This is a good choice considering the humid environment of your average pocket. Depending on the maker, there may be more or less high carbon tool steel than chromium in the blade makeup.

All of the steels mentioned thus far are resistant to rusting, discoloration, and other forms of corrosion. As with any tool, each requires proper maintenance to keep both its good looks as well as its inherent cutting properties. High chromium content steel requires almost no special care to keep it looking as good as the day it was purchased. High carbon-tool steel alloys have an advantage in toughness and edge holding ability. Which to buy is a matter of personal choice. Most manufacturers print a small pamphlet to include with each knife detailing its proper care.

Another stainless steel is 154CM.

(Continued on page 60)



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## Roadside Emergencies:

# Keep It Running

*Troubleshooting begins in the upper half of the engine . . .*

By Ralph Zumbro



This is *not* the way an outing in the country should end.

**W**E'VE all felt the sputter of a dying engine; usually far from home on a rainy night. The normal reaction is to pull over and at least try to find the problem, rather than call for a tow truck. But 95 percent of all breakdowns occur in the upper half of the engine, where fuel and air meet, so that's where roadside troubleshooting begins.

For an engine to run, it has to have just three things: Air, Fuel and Spark. If any one of these is interfered with, so is the power flow. When the family chariot starts to act like Aunt Agatha's old Studebaker, it's time to start analyzing symptoms.

If the power loss was gradual, over a few minutes or an hour, the problem is usually in the fuel system when the filters finally finished clogging up. The ignition system, on the other hand, doesn't generate crud as fast as the carburetor and filters. So, if the loss of power was so gradual that it sneaked up on you, look around in the distributor and high tension wiring. A sudden cutoff, just as if the key was turned, almost certainly means the failure is electrical.

If the engine is running at all, there are several tests that you can perform; and the basic rule is: Try the obvious things first. Many times, the problem is as simple as a clogged air filter, and the engine will pick up rpms as soon as the air cleaner is lifted off. If you can't see through the paper

screen when you hold it up to the sun, (or headlights), that's your problem.

Next, making sure that the car isn't in gear, reach in, grab the throttle linkage and give it a sharp push, gunning the engine. This creates an artificial load, equivalent to low cruising speed. If the engine still staggers, you now have to decide whether the problem is fuel or electricity. There is a fine dividing line here, and too much fuel can give the same symptoms as too little electricity.

Reach out with a screwdriver handle, or a stick from the side of the road, and give the float bowl a few raps, close to the area where the fuel line enters it; and see if that straightens it up. If this cures the problem, you stop at the next station for a fuel filter and a can of carburetor-cleaning fuel additive.

That didn't work? Okay, back under the hood you go. If that sucker runs at all, it's got *some* fuel and *some* electricity, but not enough to get you home. We are now still suspecting fuel; so cut the engine off and, looking down the carburetor throat, stroke the throttle one or two times. You should see a thin stream of fuel shoot into each primary barrel of the carburetor.

No fuel means a blockage someplace, so disconnect the fuel line at the carburetor (If there's a large bulge in the carb body, right where the fuel line enters it, there's a

filter in there, and it's probably plugged).

Now, making sure the fuel can't fall on something hot, crank the engine. There should be strong spurts of gasoline, not dribblets. If no fuel comes out, you've found the problem. But what can you do about it?

**Loss Of Mileage**—Follow the fuel line down to the pump, looking for a cracked or pinched line, or a plugged filter. If you find a tiny leak between the fuel pump and the carburetor, this probably explains the mysterious loss of mileage that's been mystifying you. If the line is damaged, you can always find some extra tubing on the pollution control gear. The hoses on the charcoal canister are good for this, as their removal won't send panic signals to the on-board computer.

At this point, check the lines between the pump and the tank, as a leak here will de-prime the pump and stop the flow. Frequently, the problem is no more than a loose fitting. If, after trying all else, the bugbear is the pump, itself, you're going to have to get creative.

The original auto fuel systems were all gravity flow and, for most engines, that system will still work. You'll have to find a length of hose, such as the long run from the charcoal canister to the tank. If you take this line, leave enough on the tank end to direct fumes clear of the car body.

Find a one- or two-gallon container; a large thermos or soft drink bottle will do (In an emergency, I once used the windshield fluid holder as an ersatz tank). Siphon fuel into the container, and then tie it on top of the vehicle; get a gravity flow started—and you're on your way.

Some carbs are resistant to gravity flow, and you may have to pressurize the tank. The access point is the overflow line at the fill-neck (I used a bicycle pump to pressurize the tank of a Corvair for most of the length of Illinois—in January; it's better to carry spare parts). There's also pressure available in your spare tire, but you can't use the whole 30 pounds. Just give the tank a shot and go till she starts to sputter again.

If the carburetor test shows the presence of fuel, you may have too much of a good thing. Go to the rear of the car and look carefully into the tailpipe. It should be coated with a fine, pearly white lining. A fluffy dead-black deposit means that the





Corrosion on the terminal can stop the flow of electricity. The square "caution" lid conceals three normal battery fill tubes.

carb is running way too rich, and that the entire engine, including the spark plugs, is coated with energy-robbing soot. What now? Your tool box is in the garage, and you don't have a plug wrench . . . You *are* going to have to get tricky, and clean the plugs in place.

First, shut the engine off and loosen the plug wires at the distributor; then, create an insulated wire puller from a green stick. With the motor running, lift the wires, one by one, out of their sockets, just slightly. What you are doing, is forcing the ignition system to make a hotter spark to jump the gap. In doing so, it feeds the hot spark to the plug, and the deposits burn off. The engine will run rough as hell, until over half its plugs are clean.

If you eliminate the fuel system totally, and have to focus on the ignition system, check number one is the spark itself; and you'll need some shade, in order to analyze the flame. Disconnect one of the wires at the plug end, and peel back the boot. Then, with the engine running, hold the tip next to the block, (if you don't use the insulated stick, modern ignitions can stop your Pacemaker), and look at the spark. The electrical flame should be bright blue and at least half an inch long. A short, reddish spark means weak ignition, and some checking around.

The one item that no one, including many mechanics, ever checks is the wires themselves. If there are cracks showing on the insulation outside, you can be fairly sure that the carbon conductors inside are breaking down, too. A good trick is to take a cheap transistor radio and tune it between stations; then, moving it over the wiring, use it as a stethoscope to find leaks.

If the trouble began at night, gunning the engine should show a pretty display of blue sparks all over the high tension harness. If wiring is your problem, a spray can of ignition waterproofing may restore enough insulation to get you back to civilization. Another cure is to carefully lift all wiring clear of metal, and support it with

wood or rubber, depending on what's available. A new set, made of house wire and garden hose, has been known to work . . . it got one farmer to town.

Moving back up the chain of ignition parts; again, shut off the engine, and remove the central wire from the distributor. Now, turn the engine over (it won't start), and check that wire for spark. This is the weakest link in the chain, and if the spark is bright going into the distributor, but weak going out, you've found the problem.

Remove the cap and begin looking around in there. Check the rotor tip for burn marks or corrosion. That particular item, by the way, takes four to eight times the wear of the plugs, and should be changed as often as they are. The rotor can be cleaned by scraping with a knife blade, on a stone, or with your ladyfriend's emery board. The same treatment will work for the contacts inside the cap. When cleaning

the contacts, look for carbon tracks between them, and for a crack in the cap, as all of these can cause missing.

While you're in there, look around for excess crud in the distributor body; this is a sign that it's leaking fumes from the crank case, and should be replaced. Try to wiggle the shaft, too, as a worn bearing, here, can cause rough operation.

If the spark coming out of the coil, or "brain," is weak, **YOU ARE IN TROUBLE!** That little bundle of transistors needs a good ground to work; and your only chance of a fix is to check for corrosion—all the while consulting your personal connection with the spirit world. The coil and brain are *not* field-repairable, and should be at the top of your list of on-board spares.

**Battery**—If the motor won't even crank, your attention is automatically drawn to the battery and, here, some clarification is necessary. Modern batteries, alternators and ignition systems were all designed to work together. The battery is designed to release high amperage quickly, in order to

*(Continued on page 73)*



Transferring power from the large terminal to the small one will cause the starter to function independently of the key switch (Chrysler Corporation).



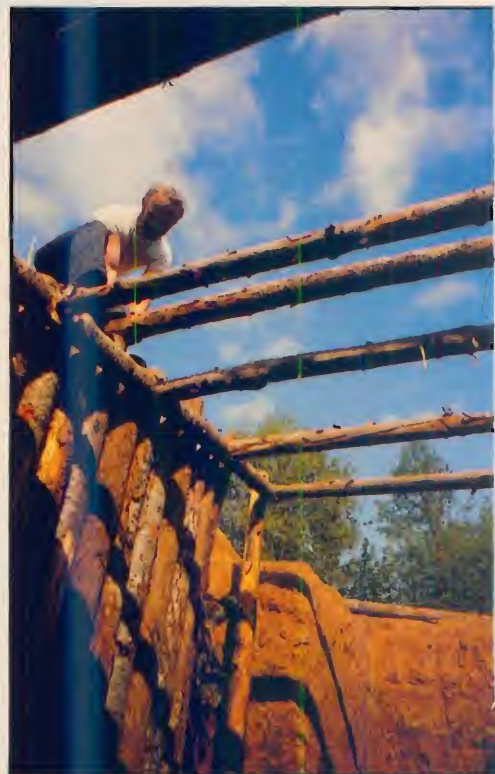
At the point where the fuel line enters the carburetor is where you disconnect it for testing.





**LEFT**—Over the pole roof goes a layer of straw, to provide some cushion from a blast and to fill the chinks between the logs on the roof so dirt does not fall through onto the inhabitants of the shelter.

**BELOW**—While most of the shelters described provide fallout protection only, the elaborate small pole shelter originated by the Russians and improved by Cresson Kearny provides blast protection as well. Here you see several stages of construction at one time. First the hole is dug, then lined with poles, then covered with heavier poles.



**LEFT**—Interior of the small pole shelter clearly shows the interior lining of poles on the floor, sides and roof that make the shelter so strong. It can withstand a nuclear blast's effects as well as provide fallout protection.



**LEFT**—While the entrance and the interior space to the door-covered trench shelter are very cramped, a family could survive heavy fallout by staying inside the shelter for a few days until the radiation level dropped to a reasonable level.



Poles, straw and dirt are the roof of the pole shelter, with a layer of plastic to direct rain water off of the shelter and into ditches around the shelter.



## Small Group Protection:

# Do-It-Yourself Blast And Fallout Shelter

*Learn how you can make your own nuclear bomb shelter inexpensively with Cresson Kearny's updated book and new video tape . . .*

By Carl E. Krupp



A young family clears the land for a partially above-ground, door-covered trench shelter.

**O**VER 28 percent of the world's population have nuclear fallout shelters, including many elected U.S. officials. Finally we can have them too, even if we can't get 10 percent of one year's military budget to do the job right for the whole

country.

While the politicians worry over what the Russians would think if we started building in-ground shelters to save our people, the Russians, along with the Chinese, Swiss and Finns, have almost

completed their bunker systems.

But now you don't have to wait for the politicians, or commit a lot of money to a steel or concrete shelter, for knowledge and sweat are all that are required to protect you and your family in an expedient shelter you can dig when the need becomes urgent, or partially prepare in advance and finish only if needed.

Cresson Kearny, author of the handbook on expedient shelters, *Nuclear War Survival Skills*, has just done it all again, revising and adding greatly to his book. The book offers 282 pages of the most current information about shelter building and shelter equipment, all homemade from items easily found around the house, including a dose rate meter to measure radiation, air pumps for ventilation, hanging furniture for a shelter and much more. Available for just \$9.50, this expanded edition is certain to outsell the 400,000+ copies of the earlier edition sold over the past eight years.

**New Video Tape**—In addition to updating his book, Cresson Kearny has watched carefully over a group of volunteers who hand dug each of his shelters, while a professional camera crew caught all the action on video so that people serious about protecting themselves would have a two-hour video they could watch. Having the book for ready reference and being able to look at the video, which is now available for \$29.50, is more than enough to show you the tricks of quickly building a shelter.

In all cases, the shelters shown are not theoretical models, but have been built and blast tested, sometimes several times, to assure they will perform as described.

Today, most big, deep holes are dug with a backhoe. Unfortunately, if America needed 50 million holes dug in one day there would not be enough backhoes to get the job done.

But there are lots of garden tractors and rototillers in America and naturally they would be very helpful in loosening the soil so it was easier to dig. Ultimately, though, it will be people with shovels and picks who will dig the shelters.

Even if you didn't do some of the digging in advance, it would be a good idea to prepare some of the materials ahead of time, shortening the shelter construction time considerably. Many things, such as a homemade dose rate meter and shelter furniture, can be fabricated now. Stockpiling food and shelter construction materials would also be wise.

However, the most important item needed in advance is information on how to build a safe shelter. Procrastination on getting the information could prove to be a major mistake! Order the video tape (\$29.50) and the handbook, *Nuclear War Survival Skills* (\$9.50) from the Oregon Institute of Science and Medicine, Dept. ASG, P.O. Box 1279, Cave Junction, OR 97523, and join the ranks of people protecting themselves. ●



Treatment:

# Acid And Base Burns

*A patient who has been burned by an acid or base, especially in the eyes, can be difficult to reason with . . .*

By Todd M. Stanford



A laboratory safety shower and eye wash station for chemical burns.

**A** CIDS and bases (alkalies) are found in laboratories (industrial, hospital, and school), retail stores, homes, and both on and alongside highways. Acids are compounds which have a pH of less than 7.0. This is a measure of the reciprocal of the hydrogen ion concentration of a solution. The lower the pH, the higher the hydrogen ion concentration, and thus the more acidic a compound is. Acids react with metals to yield a chemical salt and hydrogen gas. In general, acids are caustic. That is, they burn the skin and eyes. In solution, acids rapidly dissociate into their component anions (negative ions) and cations (positive ions), the cations always being hydronium ions ( $H_3O^+$ ).

Acids are found in the form of drain cleaners, storage battery electrolytes, concrete cleaners, and many other household materials. Industrially, acids are used for "pickling" metals, etching glass, dissolving "burrs" from machining metals, and many other applications. In the laboratory, acids are used for solvents, and reagents. Acids are transported in almost any size container, from one-pint glass or plastic bottles to tank cars. Accidental exposure to an acid can result from spillage, splashing, transportation accidents, and even the improper "jump starting" of a vehicle.

Bases, by comparison, have a pH greater than 7.0. Bases react with acids to form a chemical salt and water. This is known as a neutralization reaction. If the acid and base are mixed in the proper proportions, the resulting salt solution will have a pH of 7.0 (neutral). Like acids, bases can be very caustic. Also like acids, bases rapidly dissociate into their component anions and cations.

Bases can be found around the home in the form of drain cleaners, jewelry cleaners, oven cleaners, lye, and other fairly common cleaning solutions. Industrially, bases are used as electrolytes, cleaners, and in various production processes. In the laboratory, like acids, bases are used for solvents and reagents. Bases are shipped in their anhydrous as well as solution forms. Because of this, a transportation accident involving bases may take the form of either a liquid or a solid spill. Accidental exposure to bases may be caused from spilling or splashing or even discharg-





These are some common household acids and bases.

ing an aerosol can of oven cleaner into the eyes.

By now you've probably noticed that, except for the actual chemistry, acids and bases are very similar. Both classes are

caustic, both are good electrolytes, and both can be found virtually anywhere, from the home to the school, to the workplace to the highway. One big, important difference exists, however. When an acid attacks body tissue, a protective film is formed which tends to limit the depth of the damage. When a base attacks body tissue, it dissolves it. A way to remember this is the KOH (Potassium Hydroxide—a strong base) test used to diagnose a fungus infection. A drop of KOH is placed on skin scrapings on a microscope slide. Anything that remains visible on the slide are fungus spores, as the skin itself is totally dissolved

by the base. It is obvious then that while both acids and bases are damaging to human tissue, bases have the potential to carry that damage deeper into the affected tissue.

**Modes Of Exposure**—There are essentially three modes of exposure to either acids or bases.

**INGESTED**—Except in the case of attempted suicide, this mode will usually not be encountered in any patients other than toddlers. The mouth area will be red, swollen and sometimes blistered. The throat will have similar visible signs as well of the passage of a caustic material. Treatment consists of diluting the ingested material with milk or water. **DO NOT** induce vomiting as this will only re-expose damaged tissue to the caustic agent. Particular attention needs to be paid to the patient's respiratory effort. Since, in passing through the upper digestive tract, the

(Continued on page 62)



The proper technique for flushing eyes burned by acids or bases using an intravenous solution and set.



An acid or base burn of the skin should be flushed with large amounts of running water for at least five minutes prior to transporting the victim to a hospital.





ABOVE — The Devastator is a compound crossbow with a draw weight of 125 pounds.

RIGHT — Among the optional equipment available for the Devastator are this quiver, shown attached to the bow, and padded camo takedown carrying case.

BELOW — Limited test shooting from 20 yards without a rest showed the Devastator was accurate.





Bear Archery:

# Jennings Devastator Crossbow

*Innovative design, modern materials make this a worthy piece of equipment for taking most types of game . . .*

By Jim Benson



strength extruded aluminum barrel, die-cast magnesium riser and laminated fiberglass limbs has a peak draw weight of 125 pounds and claims the fastest arrow velocity of any crossbow commercially available.

Available in an electrostatic coated black finish for target and field use or electrostatic coated camouflage finish for hunting which is applied by hand for best effect, the Devastator weighs a little over 10 pounds excluding accessories.

And there is a good assortment of accessories available from Bear Archery for this bow, a few of which were provided with the test camo-finished Devastator loaned to us by Bear. These included the Jennings crossbow quiver, padded black nylon carrying sling with swivels and a takedown padded nylon camouflage carrying case.

The sight system consists of a fold-down rear peep sight and multi-pin front sight rack. An optional pistol scope and mount are also available for the Devastator.



ABOVE—Here the Devastator is fitted with Jennings crossbow quiver and padded nylon carrying sling.

BELOW LEFT & LEFT—The sight system is a folding rear peep hole or notch, whichever the shooter prefers to use, and multi-pin rack in front.

**T**HE Jennings Devastator crossbow, introduced this year by Bear Archery, has a number of unique design features that set it apart from other crossbows on the market.

This compound crossbow with its bullpup, mineral-filled nylon stock, high





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## Jennings Devastator Crossbow



The opening behind the rear sight allows inspection for proper placement of the arrow nock and string.

The string has a minimum amount of track to rub against when shooting this bow, providing longer string wear, better accuracy and performance

Overall length is 36 inches plus 5 inches for the standard built-in rigid foot stirrup which makes cocking this powerful crossbow much easier. Overall width is 32 inches, axle to axle, with a 26-inch string. The eccentrics are made of machined aluminum. The Devastator uses 22½-inch arrows.

Assembling the bow was a snap, except for the front sight pins, which, it turned out, were somewhat different than those described in the instructions. The of itton-head screws used to anchor the sight pins would not fit in the threaded holes of the pin mount plates and I was unable to properly assemble the four front sight pins on their mounting plate. Redrilling and enlarging the threaded holes would have taken care of the problem, but I didn't have the time or equipment for that, so I improvised and just attached the sight pins to the mounting plate with the knurled nuts that came with them. The pins had to be re-positioned and the nuts re-tightened after each shot because of the vibration involved, but this arrangement sufficed for testing.

The padded nylon carrying sling proved comfortable and convenient in packing the Devastator to the shooting area which involved hiking down a steep hillside in rugged terrain.

Using a standing position without a rest and shooting from 20 yards, I was easily able to penetrate the black of the target with the Devastator, convincing me that this bow is indeed accurate. There is a fair amount of vibration when shooting but the weight of the bow helps keep this under control.

After the shooting session, the Devastator was quickly broken down using only the Allen wrench supplied with it and stored securely with quiver and bolts in the handy padded camo carrying case.

Smaller-statured shooters may find this

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crossbow a bit more difficult to wield that people with larger builds, but Devastator is otherwise a real pleasure to work with. This is an innovative, high performance crossbow, worthy of taking big, medium or even small game. It's dependable and

accurate.

For more information on the Devastator, see your archery dealer, or contact Bear Archery, Dept. ASG, 4600 Southwest 41st Boulevard, Gainesville, FL 32601; (904) 376-2327. ●



The padded nylon carrying case secures the broken down Devastator for convenient transport and storage.

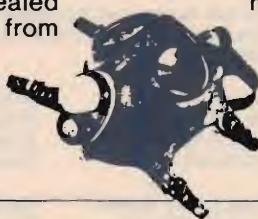


Padded nylon carrying sling is comfortable and adjustable.

## Israeli Simplex 4 Gas Masks

The Israeli masks feature coverage of all battlefield agents with a suspension system that allows children as well as adults to wear the same mask. The mask has the ability to quickly and easily change filters while wearing the mask. The USM-17A1 mask on the other hand has 4 different sizes, to change filters requires the user to take the mask off & 3-5 minutes to change filters that have a 4 year life span. Why pay \$70.00 or more for a US -17A1 mask when a \$7.00 mask offers better features?

**Israeli Simplex 4 Gas Mask** Nuclear, Biological & Chemical protected. Used by Israeli Military Forces. 1 size fits all due to an excellent suspension system; complete with filter, sealed in original wrap. My competitors sell these masks from \$12.95 to \$29.95. Why pay more? \$7.00 or 2 for \$13.00



**Israeli Simplex 4 Filters** Current Contract/Current Issue replacement filters. The filter features a metal outer body with male fitting which allows a quick & easy filter change while wearing the mask. A lot of dealers sell the mask but do not sell replacement filters. We do both at a low price.

**\$4.95**

**Israeli Mask** Complete with filter in wrap with 1 extra filter.

**\$12.00**

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\$10.00 minimum order. **CASHIERS CHECKS & MONEY ORDERS** get first attention. **PERSONAL & COMPANY CHECKS HELD UNTIL CHECK CLEARS BANK** (minimum 14 bank working days, no exceptions). **MASTER CHARGE & VISA** accepted. No back orders, either merchandise or refund promptly sent. No COD orders accepted. See the below shipping, handling & insurance chart for the correct amount to send with your order.

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## Knife Steels

(Continued from page 49)

Though popular with custom makers, only one series of commercial knives use it. These are knives by Al Mar, a custom smith turned commercial manufacturer, and are made in Japan. This is not a slight by any means. The Japanese have made significant developments in the field of metallurgy. For centuries, who could match the forged blades of the Ninja and the Samurai? Today, they have modified 154CM slightly into an alloy known as ATS 34. Originally developed for use in turbine fan blades for jet engines, Al Mar also uses it in his knives. The most well-known of his models is a folding knife called the SERE, (Survival-Escape-Resistance-Evasion). Originally conceived for use by U.S. Special Forces, it is available to the public and is widely advertised. It has a slightly lower chromium content than the 400 Series, but takes and holds a better cutting edge.

The last of the stainless series is known as D2. With less chromium than 154CM/ATS 34, but with a higher carbon tool steel content, D2's edge holding ability and durability are superior to its other stainless cousins. It still contains enough chromium to keep it rust and stain resistant for years with the proper care one should give any knife.

Currently in use by Kershaw Kai Cutlery Company, some models of these knives were created by a former Gerber designer. Their folding models with finger groove, rubber polymer "Task Force" grips, and secure Cordura nylon sheaths are among the best values available in commercial knives. Even top custom makers recommend D2 to customers wanting a knife that will be used extensively, not just put in a display case or safe deposit box.

The majority of knives mentioned here cost around \$40 or less. A few of the larger hunting or specialty knives run in the \$50 to \$100 range. Only a very few cost over \$100. These include such knives as the BuckMaster, Gerber's BMF, (Basic Multi-Function), and the hunting and fighting versions of the Cold Steel Tanto. The issue of price would not normally be a consideration here except for the following.

There are some custom knife makers who turn out rugged, work oriented knives made of the non-stainless carbon tool steels. And at very comparable prices. While these blades contain little or no chromium, they do contain other trace metals such as magnesium and vanadium. These metals enable the steel to be heat treated properly.

These smiths use such steels as 0-1, 0-6, W-2, M-2, 1060, and 1095, the latter used in the famous Randall knives. Most will produce a hunting or utility-type knife with a dull utilitarian or "forged" finish. These won't have the mirror bright,



Folding knives of the Kershaw Kai "Black" series.



One of the cheap "survival" knives on the market which the author describes as "an accident waiting to happen."

### Knife Sources

Here are the names and addresses of the knife companies listed above as well as some custom makers. The latter usually charge a small fee for their catalog and price list but it's well worth it.

Buck Knives  
P.O. Box 1267  
El Cajon, CA 92022  
Phone (619) 449-1100

Schrade Cutlery Corp.  
30 Canal Street  
Ellenville, NY 12428  
Phone (914) 647-7600

Lee Bench Made  
P.O. Box 1777  
Gaffney, SC 29342  
Phone (803) 489-8302

Gerber Legendary Blades  
14200 S W 72nd Street  
Portland, OR 97223  
Phone (503) 639-6161

Kershaw Kai Cutlery Co.  
6024 Jean Road, Suite D  
Lake Oswego, OR 97034  
Phone (503) 636-0111

Cold Steel, Inc.  
2128 Knoll Dr., Unit D  
Ventura, CA 93003  
Phone (805) 656-5191

### Custom Knife Makers:

Pat Crawford  
205 North Center  
West Memphis, AR 72301  
Does some carbon steel  
knives but no hollow handles.  
Prices start at \$65. 35 page  
Catalog \$3.

Dan Dennehy  
c/o Dan-D Knives  
P.O. Box 2F  
Del Norte, CO 81132  
0-1 carbon, 440C and D2  
knives. Prices start at \$95.  
Catalog \$1.

Shiva Ki  
5222 Ritterman  
Baton Rouge, LA 70805  
Carbon steel and hand forged  
Damascus. Prices start at  
\$200. Catalog \$2.

Jim Crowell  
Route 74 Box 368  
Mountain View, AR 72560  
W-2 carbon steel and hand  
forged Damascus. Prices  
start at \$100. Catalog \$1.

Kuzan Oda  
P.O. Box 2213  
Hailey, ID 83333  
154CM knives starting at  
\$100. Catalog \$1

Ruana Knife Works Inc.  
Box 520  
Bonner, MT 59823  
0-1 and 1095 high carbon  
steel. Prices start at \$35.  
Catalog \$1.



polished finish of a comparable stainless blade, but are nonetheless entirely serviceable. While a highly polished knife blade can be used as an emergency signal mirror by a lost or stranded hiker, there are advantages to a subdued finish on a blade as well. Witness the classic parkerized finish on a USMC fighting knife or Air Force survival knife. Most hand forged blades of this type cost only a little more than the BuckMaster or Cold Steel Tanto. Exact prices, of course, depend on the maker.

Lastly, there is Damascus steel. Until only very recently, Damascus was not available economically in large quantities. Master blade smiths, using techniques handed down over centuries from master to apprentice, forge Damascus by hand and eye to create beautifully patterned steel of up to 750 individual layers. Yet the finished blade is not thicker than standard knife blades. The rough steel bar, (or billet), is heated in a forge to the proper temperature, determined by the color of the hot steel and trained eye of the smith. The steel is then hammered out and folded over onto itself. It is then reheated, hammered, and folded again and again creating more layers. What happens to the steel in this process is that the grain boundaries in the steel align, while layering gives Damascus blades phenomenal strength. Also created are minute hard and soft areas in the steel. When final shaping of the blade is completed, the "soft" areas of the edge erode away leaving only the harder steel. This process results in a microscopic serrated edge, a superb cutting tool. A standard test of blade sharpness among smiths is to cut with a single swing a free hanging 1¼-inch Manila rope.

A custom Damascus knife, the blade forged by hand by a master smith, (and there are few), will lighten your wallet by about \$125 an inch. Be prepared for a long wait for delivery.

Damascus billets can also be forged by smiths using pneumatic or hydraulic "hammers" in a fraction of the time it takes to manually wield a hammer. Forged in quantity, even though they're still made by hand, billets of this steel are produced economically.

These raw billets are then turned into finished knives by a team of skilled American craftsmen under the critical eye of Tommy Lee, head of Lee Bench Made Knives. Each blade contains 512 layers of Damascus steel produced by noted blade smith Fain Edwards and his crew at Ameri-Steel especially for Lee Bench Made. The end result is an offering of hunting and folding knives, in a variety of blade shapes, that will fit into most budgets. ●

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## Acid And Base Burns

(Continued from page 55)

material also passed through the patient's upper respiratory system, airway obstruction from edematous (swollen) tissue can occur. Needless to say, the container the material was in should be transported, with the patient, to the emergency department.

**INHALED**—Except for laboratory or transportation incidents, inhalation injuries from acids and bases are infrequent. As noted with ingestion type injuries, the upper airway can become partially obstructed due to edema (swelling due to fluid buildup). Additionally, as lung tissue is damaged, fluids begin to infiltrate the area. As a minimum, the patient should be kept in a sitting position and placed on 100 percent oxygen using a face mask with a reservoir bag, if possible. Any burning sensation of the skin or eyes should be treated appropriately.

**CONTACT**—Contact with the skin should be treated by immediately flushing the affected area with large amounts of water. If in a laboratory or industrial environment, safety showers will be available. These should be used. The patient's clothes should be removed entirely if the torso has been exposed to the agent. If only an extremity is affected, the clothing surrounding the extremity needs to be removed. The exposed area needs to be flushed for a minimum of five minutes prior to initiating transport. This flushing tends to wash away the bulk of the offending agent and substantially dilute the remainder. In the absence of safety showers, a household shower, garden hose, fire hose, or any other source of running water should be used. Even a pressurized water fire extinguisher can be used. Buckets of water repeatedly poured over the patient will accomplish more than doing nothing.

Contact with the eyes deserves special mention. Many industries provide emergency eye wash stations. Some of these consist of a plastic squeeze bottle with an eye cup attached. These are effective until another source of running water can be located. The better eye wash stations consist of two spherical outlets suspended over a basin. The outlets are positioned such that both eyes are flushed (laved) simultaneously.

If one of these "permanent" stations is available, the patient should be assisted in using it. Encouragement and possibly physical assistance may be required to hold the eyelids open and thoroughly irrigate the areas under both lids, as well as the eye itself. Eye lavage should be performed for a minimum of 10 minutes prior to initiation of transport if an eye wash station is available. In the absence of an eye wash station, any source of running water can be used. Irrigation should continue throughout transport, if possible. This is most easily

accomplished by setting up an intravenous set using normal saline and holding the flashbulb end of the administration set at the medial (towards the center of the body) part of the affected eye.

By holding the eye open and pulling the lids away from the eye, the solution is allowed to run over the eye and away from the patient, into a basin or towel. If both eyes are affected, the administration tube is held such that the solution strikes the face at the bridge of the nose and can irrigate both eyes simultaneously. In the absence of normal saline, Ringer's Lactate or 5 percent dextrose in water, or any other solution designed for intravenous (IV) administration can be used. In situations where IV fluids and administration sets are unavailable, continue to flush the eyes with water from a bucket or other container. The important thing is to flush, and continue to flush, the offending agent out and away from the eye. It is not uncommon to see first degree burns of the cheek as a result of proper eye lavage. The material that caused the facial burns could have resulted in blindness had it stayed in contact with the eye.

**In Summary**—NEVER attempt to neutralize an acid or base that is in contact with a patient. Regardless of what bystanders or co-workers may say, neutralization reactions are exothermic (heat producing). By attempting to neutralize a chemical on the patient's skin you may add a thermal burn to the damage initially done by the chemical.

A patient who has been burnt by an acid or base, especially in an eye, can be difficult to reason with. Their actions can be somewhat irrational. A calm, relaxed explanation of what you are doing and why, as well as the consequences of not doing it are a necessary, integral part of your treatment protocol. It is also extremely helpful to have at least two attendants per patient. In this way, one can hold the eyelids open, or manipulate the affected part, while the other directs the irrigating stream.

A last-but-not-least consideration of dealing with a patient who has sustained an acid or base injury is to protect yourself. The offending chemical does not just do its damage and then disappear. At least wear rubber gloves and some type of eye protection, if possible. If entering an enclosed space where an acid or base has been spilled, or when working at the site of a transportation incident where acids or bases have been spilled, a good rule of thumb is, if you can smell it, use SCBA (Self Contained Breathing Apparatus) or hold your breath until you can get the patient out of the immediate area. A rescuer ceases to be a rescuer when he becomes a victim himself. ●

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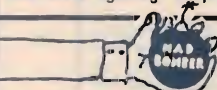
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(Continued from page 16)

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## Creature Of The Forest

(Continued from page 25)

ate some food, picked up some maps and a shirt off the line, and left.

"I believe it was the last of August or the first of September when I hit the mountains. I spent that winter and probably the next in the Sawtooth Range . . ."

Avery, Idaho, the place where Moreland got his maps, is still very much the same as it was in the early thirties. Milwaukie Road trains continue to collect at the extensive marshalling yards there where they are remade into shorter units for the trip down through the rugged mountains to the east.

A single track leads in and out of this mountain hideaway providing a link with Spokane, Washington, and Missoula, Montana. That Moreland stopped there is not unusual, given his propensity to travel. Why he took maps of such godawful country, much less kept them, is a question that will never be answered.

During the early 1950s, Bill on several occasions told Burt Curtis—a local logger—that he came to Idaho from central Arizona.

Whether he left from someplace in Arizona or from the desert country of Mountain Home, Idaho, is really immaterial. Before long, Moreland found himself deep in the mountains of central Idaho, heading north.

Twice when the weather got really bad and the snow piled up the first two winters, the wild man decided to head out to town. However, he apparently heard rifle fire and assumed it was directed at him. His past encounters with the law plus the already great solitude clouded his mind. It was just elk season in Idaho, but Moreland assumed officers were trying to get him and reacted accordingly.

**Semi-Informed**—On coming out in 1945, Moreland dated his departure by saying he had left just before Roosevelt was elected the first time (in 1932). As the years went by he kept semi-informed by reading old newspapers and magazines left in Forest Service lookouts and cabins.

Given the ruggedness and depth of the area, packers and guides who work the country have questioned not only if Moreland crossed it in two years of walking but, more important, could any man perform such a feat without ever coming out to civilization to resupply?

Later, when Moreland established himself on a semi-permanent basis in the St. Joe and Clearwater National Forests, he set up regular supply caches. All were well hidden far from regular trails. As far as is known, none was ever discovered until Moreland himself showed them to searchers.

These included hollow logs, pits dug under large rocks, rock shelters, caves and holes under windfalls. All were on the ground, accessible to animals. Although

there is no record, Moreland must have suffered mightily from bears, pack rats, porcupines and chipmunks.

Principally the caches were made up of items of clothing and footwear taken from cabins and lookouts, as well as stores of packaged food. Some of the food was stolen Forest Service rations, but much was grub Moreland put up himself.

During the warmer months Moreland used old telephone wire to snare deer and elk. He cut the meat into strips and dried it over a fire. Thus prepared, the stuff lasted quite well but, as one old woodsman who knew him later said, "It was tough fare—I don't think anybody but Bill could have lived on it."

Another trick Bill used—after he had acquired a rifle—was to preserve wild huckle and thimble berries till winter in old tin cans. He accomplished this seemingly impossible task by shooting a fat bear in the fall and rendering the critter's lard. The molten grease poured over the berries sealed and preserved them until the time of need.

Probably even the wildman had to be half starved before eating such a concoction.

However there can be no caches of food and clothing for one heading through the country on a line. As the crow flies, it is about 250 miles from Mountain Home to the Pierce/Headquarters area where Moreland finally stopped. On the ground, the distance had to be more nearly 750 miles.

Obviously given the fact that he made it in two years and that extensive travel was impossible several months of the year, the man had to have pressed on with a great deal of determination.

So what kept him alive? During spring and fall when few people were around, the wildman might have used some of the Forest Service rations stored in the various lookouts. After the disastrous fires of the early 1900s, our country embarked on an ambitious fire control plan that included an extensive system of fire watchtowers. Today most of the fire surveillance chores are handled by airplane but in the 1930s even the really remote areas had a lookout on every high peak.

Forest Service pack strings visited the stations once every two weeks during the fire season. Between times, the watchers kept in touch via a primitive network of field telephones.

Grub for the stations was transported in advance in stout, green Forest Service chop boxes. It wasn't fancy but each box contained enough food to last one person 90 days. Traditionally a full chop box was left at every lookout and cabin after the fire season when the watchers departed.

Obviously Moreland would have few compunctions about helping himself but,

more important, the Forest Service didn't get all that excited about providing a handout back, in the bush. Part of the agency's plan in leaving grub in their cabins was to provide emergency rations for lost hunters and other humans in distress in that part of the world.

In later years Moreland told ranger Ralph Space that one time he got caught up in a high saddle by a freak early November storm. The storm dumped over three feet of snow, making travel impossible.

Since he couldn't move, Bill dug a small shelter out of the side of the hill into the ground under a large hemlock blowdown.

He laid in that spot for five weeks. The only food he had was a couple of six-ounce piney squirrels. Twice he went five days without getting anything at all to eat!

After five weeks of misery that would have killed almost anyone else, the snow crusted enough so that Bill was able to move down into one of the less severe valleys where the piney squirrels were now abundant.

Although deer and elk were few, other small animals were available. He snared rabbits, giant four-pound blue grouse, ruffed grouse and fools' hens. Back in the primitive areas these creatures are so unwary that it is often possible to kill them with a stick or stone.

Another staple that Bill partook of often was porcupine. He roasted them in an open pan and often soaked the grease up with a puffball or cauliflower mushroom.

Years later Moreland described in detail Meadow Creek, Deep Creek and Fish Lake located in remote central Idaho. Those who personally heard his tales were convinced he had been there, but still there was no proof that he had actually walked from the Idaho desert through all those trackless mountains.

**Hole Ups**—Through the years several of his "hole ups" have come to light. One was nothing more than a five-foot hollow cedar log. Bill had a bunk rigged inside with a single piece of stove pipe cut in the ceiling. He built a fire on the floor and closed the entrance with pine boughs.

Another shelter was merely a hollowed out area under an earthen bank, much like a woodchuck's den, similar to the hole up he used when snowbound in the saddle.

Both the log and the den were high up on the headwaters of major creeks, away from the trails. The snow came early at those elevations and on several different occasions the wild man found himself snowed in. Forced to spend two or three months holed up away from the game which had retreated to lower elevations, he again lived on martens and piney squirrels.

It was a miserable, desperate existence. Often meals were as much as five days



apart for the entire winter.

Later, after the snow hardened, the wild man was able to come down into the warmer valleys where he could raid a cabin or catch a fish.

Fishing in the many rivers and creeks was excellent. If the salmon and steelhead weren't running, there were always trout or whitefish. To a hungry man even the abundant squawfish and suckers probably looked good. Bill got them on a hook and line he "borrowed" or in rock traps he constructed in the creeks.

But always there were tremendous hardships. Most winters he had no rubber boots. When he could, Moreland solved this problem by making boots out of old inner tubes. Shoes and clothing were a problem. He stole what he could, improvising as necessary. Although he had a size five shoe, he stuffed rags in a borrowed set of size 11s and made these do one winter.

He fashioned shirts from blankets, using mails to lace up the sides. Years later, Moreland said the dearest thing he lacked in the woods was "something to sew with. Nobody ever leaves that material behind," he said.

And the wild man was personally dirty. He never bathed. The layer after layer of long underwear he wore—when he could find it—simply rotted on his body, giving it a vile odor. His skin had an oily, dark hue that shed water like a Simonized car.

His eating habits were more like an animal than a human. When food was plentiful the wild man gorged himself, eating with both hands tearing at the groceries.

Once while roasting a rabbit on a spit he was jumped by a bobcat. The critter made off with the last of Bill's food, causing no end of grief. Next summer Moreland tried his best to snare or shoot every wildcat in the drainage he was still so angry.

Through the years the wild man learned. When he finally was able to steal a .22 rifle, he felt his future looked much brighter.

He made snowshoes out of vine maple laced with raw buckskin strips. But snowshoes didn't always help.

Bill Moreland was a small man, standing 5 feet 2 inches and weighing about 130 pounds. Perhaps his small stature was an advantage finding shelter and securing enough food. Later, when he came out of the woods, the Forest Service gave him a medical examination. They found the wild man to be in reasonably good health. However the feast or famine diet had taken its toll in at least one regard.

Bill had lost most of his teeth. He pulled them himself as they rotted and loosened in the gum, by fastening a piece of wire to a bent over sapling and jerking them out. Compared to the rest of his life, his

(Continued on page 76)

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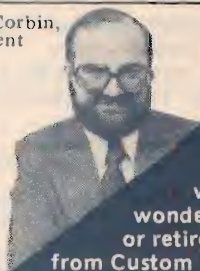
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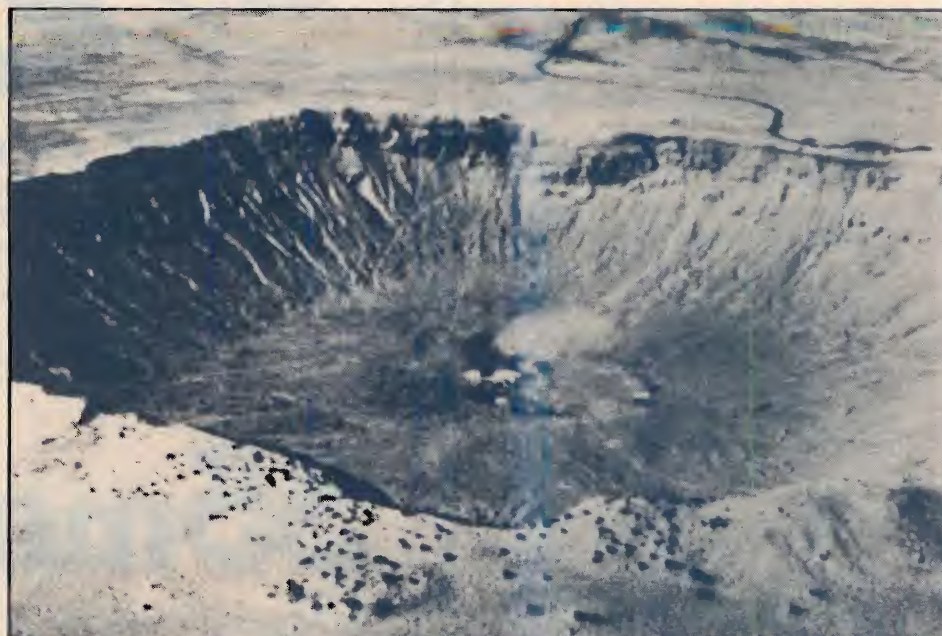
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## Cosmic Calamities

(Continued from page 23)



The Arizona meteor crater. Thought to be approximately 25,000 years old, the crater is almost a mile across and is 600 feet deep.

type scenario. Sunlight would be blocked from the surface of the earth for months or years. Temperatures would plummet. Plant life would begin to die out. Eventually almost the entire food chain would be disrupted or destroyed. A great percentage of the planet's species could be expected to become extinct.

Studies of the geological history of the earth have revealed that every 26 to 30 million years the planet undergoes a cataclysmic mass extinction of a large percentage of its life forms. There are no known earth-bound processes which would account for such a regular pattern of destruction. Many scientists have thus turned their attention to processes beyond the earth in an effort to explain the cyclical patterns of the mass extinction phenomena.

About 60 million years ago one of the largest and most complete mass extinctions occurred. Between 50 and 75 percent of all living species were destroyed. Included among them were the dinosaurs. In studying this particular mass extinction paleontologists have discovered evidence that indicates an asteroid-earth collision as the cause of the extinction. Since this mass extinction falls exactly into the previously mentioned 26 to 30 million year extinction cycle, many scientists are now of the belief that the underlying cause of the mass extinction cycle can be explained by earth-asteroid collisions.

Some researchers theorize the existence of an as yet undiscovered companion star to the sun. This star, in its eccentric orbit about the sun would have the effect of periodically dislodging asteroids in the OORT cloud. These asteroids, their normal orbits disturbed, would be gravita-

tionally attracted to the sun. As they neared the sun their new orbits would cross the orbit of the earth resulting in catastrophic collisions. This theory has been dubbed the "Nemesis" theory, after the name scientists have given the yet to be discovered solar companion star.

Whether the Nemesis theory is correct or not the 26 to 30 million year extinction cycle has become an accepted scientific fact. The apparent relationship between the extinction cycle and earth-asteroid collisions is being taken more and more seriously in scientific circles.

**Searching The Sky**—If the Nemesis theory is correct the earth may be currently in the middle of the extinction cycle. Another Nemesis-induced mass extinction should not take place for at least another 15 million years. That does not mean of course that a stray asteroid, or even a still unknown asteroid, won't collide with the earth.

This possibility has recently been taken seriously enough that a number of programs have been started in an effort to locate any asteroids on an earthbound collision course.

One of the best known of these projects is the Spacewatch Program, begun as a joint venture between NASA, the state of Arizona, and a number of private donors in 1981. Heading the Spacewatch Program is Dr. Tom Gehrels, resident astronomer at the Steward Observatory, Kitt Peak, Arizona.

The Spacewatch Program uses high-tech electronic charge coupled devices, CCDs, to scan the heavens in search of moving objects. A computer analyzes the



readout from the CCDs and is able to determine which objects, over a period of time, have moved against their normal backgrounds. These objects are then analyzed to determine their velocity and direction of travel, and to ascertain whether or not they present a collision hazard to the earth.

According to Dr. Gehrels the goal of the Spacewatch Program is to discover and plot the course of the estimated 1,000 undiscovered asteroids larger than 300 meters which might be on a collision course with earth. "It seems stupid that we should ignore the prospect, however unlikely it may seem, and then get hit by one of these things," says Dr. Gehrels.

Another even longer running asteroid search program has been studying the heavens since 1973. The Palomar Planet Crossing Asteroid Survey has so far located 57 asteroids which periodically cross the orbit of the earth.

What if one of the asteroid search programs does eventually locate an asteroid on a collision course with earth? In 1981 NASA held a conference in Colorado to determine the feasibility of diverting such an asteroid. The conference concluded that given enough warning time before impact, (10 years or so), such an asteroid could be diverted using conventional explosives, or alternately, by attaching a rocket engine to the asteroid which would alter its approach velocity causing it to miss the earth.

A similar conference held at MIT in 1967 considered the theoretical discovery of an asteroid on a collision course with earth, but having been discovered only one year before impact. This conference concluded that nuclear charges could be used to pulverize the approaching asteroid. One problem with the use of nuclear charges in such a situation involves the accuracy of placement of the charges. Should they not explode at precisely the right point, the single large asteroid might be broken into smaller, but still dangerous (and earth-bound) chunks, thus compounding the problem.

While none of the earth crossing asteroids so far discovered appears to pose an immediate threat, scientists are aware that they must continue the search. To quote one such scientist, "Until we have tracked all of them, something could sneak up on us."

A 1980 NASA advisory council summed up the reason for continuing to keep a watchful eye with these words: "A large asteroid could some day destroy earth civilization . . . In the 130 million years the dinosaurs roamed the earth, they failed to develop the technology to avoid their own extinction. Homo sapiens has developed an adequate technology. He can avert further extinction by asteroid impact. We think he should." ●



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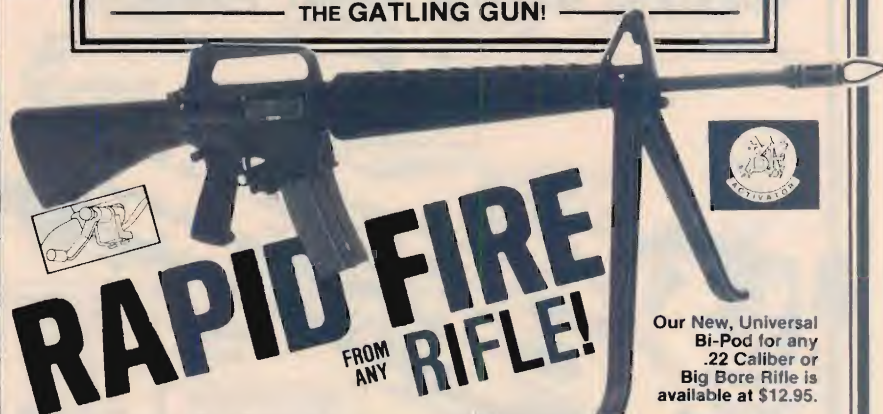
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## Carrying Handguns

(Continued from page 35)

On a camping or boating type trip I shoulder carry a 6-inch .357. In its holster, on me, it hides well enough for that need which is minimal (gas stations, etc.). It's a good bush pistol, being stainless it also endures rain and so forth fairly well.

On other trips, in motels and the like, I opt for either a 9mm or .45 auto. In this situation I'll also carry shoulder and belt holsters. Depending on what the trip profile is, I may favor the 9mm for its magazine capacity to eliminate some of the ammo problems.

In more "civilized" situations or in very warm weather you may have to minimize your hardware and go for something like a .32 or .380 auto. A .22 or .25 is an option, but, only where weight is a problem. You can get the .380 and such in a package as small as a .22 or .25 and it's a better round, for defense. I own a .25, but I rarely carry it unless it's a back-up on the job.

The small size, small caliber guns definitely have a place. Wearing a jacket in 90-degree heat attracts attention, and you want to avoid that. Also, women who carry weapons usually go with these.

Practice, both mental and physical, is essential with these weapons. Often hard to shoot, small magazine capacity and diminutive caliber stack the deck. One needs to be skilled and cool headed to use such weapons effectively in combat.

Obviously carrying a pistol concealed is a very individual type of operation, not to be jumped into lightly. Still, let us suppose you did all your homework, but, somehow, you got burned. There you are, looking at the uniformed gentleman with your pistol in his hand, and your stress factor is climbing rapidly.

Well, above all, cooperate. Keep it on a yes sir, no sir basis and do as you're told. *Don't* try to play attorney, no matter what you think you know. Most cops are not going to set out to mess you over, violate your rights or such. You argue, give them problems or become abusive, and they will do whatever they can to make your situation uncomfortable. Legally even politely, they can do a lot. As well, in court, a good attitude goes a long way.

At your first opportunity, call your attorney, don't be demanding, simply ask. If the officer says "in a minute" or the like, leave it at that. Only if it starts looking like you or it was forgotten should you push it a little. Don't try the officer's patience.

If you have no record, cooperate and use your head, even if charged the outlook is not too grim. While all the potentialities can't be discussed here your attitude and background make a great difference. You should come out fairly well. Going armed is like any aspect of survival—thinking, using your head, is the decisive factor. ●

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# MAIL CALL

## Stripper Clip Blunder

Come on guys!!! Stripper clip loading of an M1 Garand? (ASG July 1987, page 14) I'm afraid your credibility just nose-dived. Hopefully, an M-14 was intended as the reference. Better editorial checking in the future, please. I wouldn't comment if it were simply a typo, but when such a glaring error is repeated three times on a page it is obvious that the writer is simply ignorant.

Dave Lam

Frederick, Maryland

*You're right. We blew it. It's an embarrassing blunder but there's nothing to do but admit it and move on. The article in question was a product feature on the Top Loader, a device sold by Wolfe's of Fullerton, California, which can be attached to a Mini-14 so it can be loaded from the breech by stripper clip, as can be done with the M-14 rifle. The writer, who has never fired an M1 Garand or an M-14, was aware that the M1 is loaded by pushing clips of rounds down through the breech of the weapon and that the clip pops out along with the case of the last round fired. He mistakenly believed that the M1 could also be stripper clip loaded like the M-14. And, yep, we missed it on proof reading. Embarrassing but it happened. Thanks for pointing out the error.*

## Insulin And Survival.

I am a diabetic and also a survivalist. Let's say there was a national or statewide disaster with breakdown of government and economy and I couldn't get my insulin. I'd like to see an article on this problem and how it might be overcome. What are your suggestions?

J.E. Taylor

Palestine, Texas

*We've asked one of our medical writers to look into the subject and he's prepared an article dealing with what possible courses of action you might take in such a situation. We expect to have it soon and we will run it as soon as we can fit it in the magazine. Look for it. And thanks for the idea.*

## AR-15s With M16 Parts

Regarding your article, "Non-Colt AR-15 Owners Beware" in your July 1987 issue, at a recent BATF seminar for FFL holders in the Fort Worth area, the question about M16 parts in an AR-15 came up in a meeting of Class III dealers. The BATF agent said the circumstances under which M16

parts were used in an AR-15 rifle would play an important part in any confiscation/prosecution. That is, he said if one was building up an AR-15 from scratch, then it might be understandable to use some M16 parts since these are readily available and usually quite a bit less expensive than genuine Colt AR-15 parts. However, if someone purchased a brand new Colt AR-15 and pulled out some parts and replaced them with M16 parts, that might be a little hard to justify . . . In any case, any weapon firing more than one shot with one pull of the trigger is, by definition, a machine gun whether a person assembles the weapon with that in mind or not. So be careful.

Dr. Roger Metcalf  
Arlington, Texas

*Thanks for the input. AR-15 owners with M16 parts who are concerned that BATF might confiscate the weapon and prosecute the owner under a recent BATF decision to classify some of these firearms as machine guns should contact their nearest BATF office and take the matter up with BATF directly to avoid future problems.*

## AR-10 Rifle

Recently I was reading some back issues of ASG and while flipping through the pages of the January 1987 issue I came across the article "Chest Pouches You Can Make." The author lists a number of magazines that will fit in the pouches he describes and he includes magazines for the AR-10. I had never heard of the AR-10 before. I thought I was familiar with the AR family of weapons, but the AR-10? I would appreciate some brief description of this weapon.

Les Scheaffer III  
York, Pennsylvania

*According to the information we have, the AR-10 was designed by the Armalite Division of Fairchild Engine and Airplane Corporation in the 1950s. Problems with production and machinery for production as well as political considerations prevented the rifle from being commercially manufactured in this country, although some models were eventually produced by the Netherlands government-owned firm of Artillerie-Inrichtingen in Zaandam, Netherlands, and small lots of these rifles were sold to other countries before production was suspended about 1960. The AR-10 is similar in appearance and function to the AR-15/M16 and its development led to the development of those rifles.*

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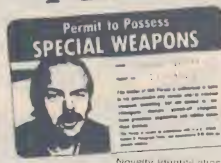
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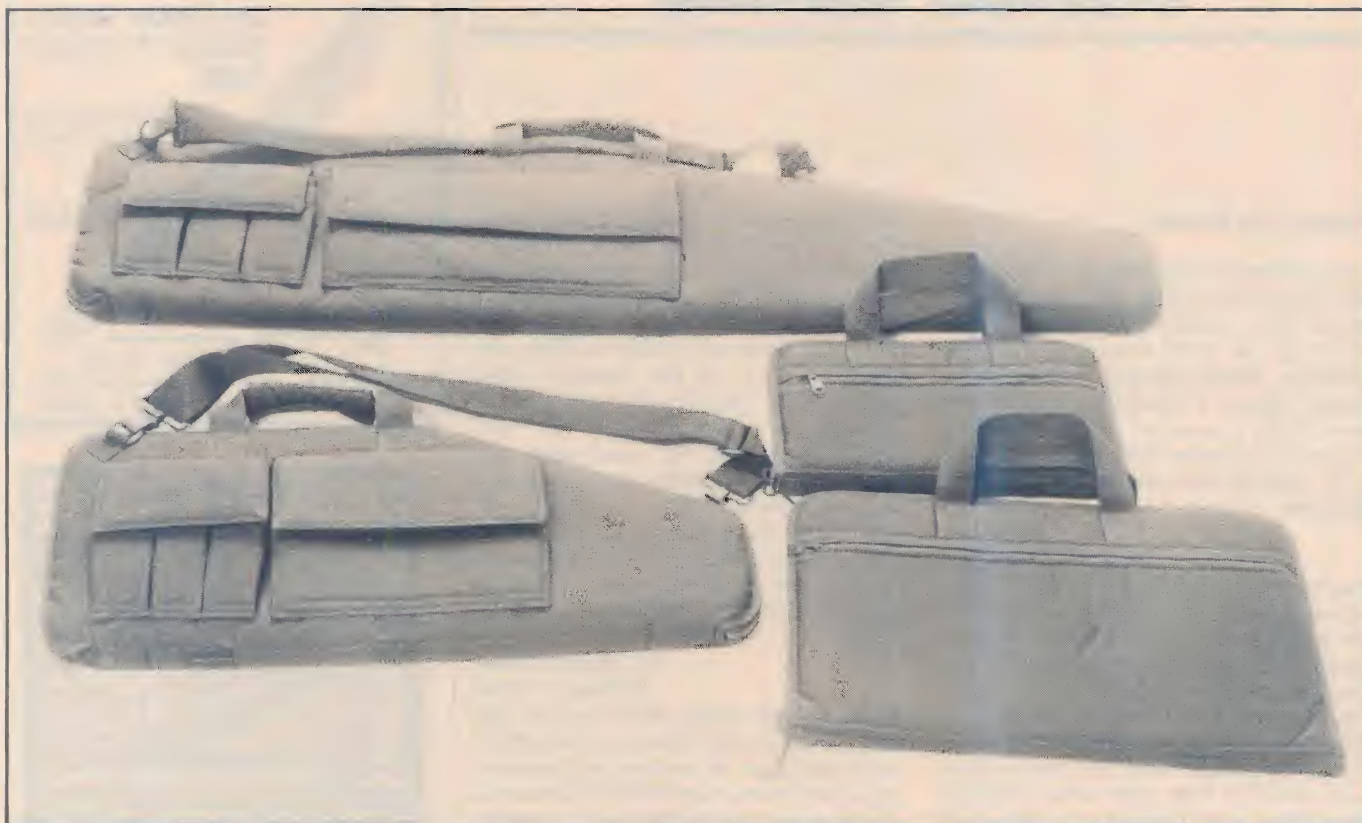
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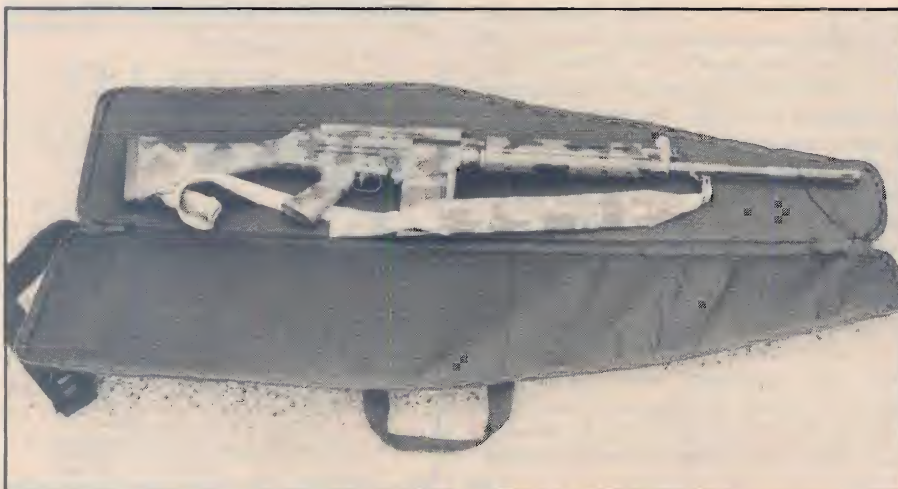
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# SURVIVALIST DIRECTORY

**T**HIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. *American Survival Guide* will accept properly coded mail and forward it to the coded addresses without charge. *American Survival Guide* accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 0901

**Phoenix, Arizona**, 17-year-old seeks contact with other survivalists in area, or will help in starting new group. Very qualified, guaranteed.

ASG 0902

**Sacramento, California**, dedicated survivalist seeks to meet others of like mind to possibly exchange ideas or start small group. Be discreet. Dedicated Americans only.

ASG 0903

**Lebanon, Pennsylvania**, family wishes to contact others of like mind in the area to exchange ideas and possibly form or join a survivalist group. Emphasis on home-stead skills; however, security is also a concern. No extremists, please.

ASG 0904

**Marshalltown, Iowa**, single, white male, 34, seeks contact with established survivalist association. Would relocate for right group, if employment in chosen field could be found. Experienced in security work, first aid and CPR rated, blue belt tae kwon do, self trained with PB-24 night stick, marksman, well read on various survival-related topics.

ASG 0905

**Fullerton, California**, male, 24, survival minded, agricultural student looking at relocating, like to contact survivalists in rural areas.

ASG 0906

**Staten Island, New York**, survivalist of 10 years wishes to exchange views and information with others. Don't care where you live; only real survivalists. No commies, Nazis, Rambos or druggies, please.

ASG 0907

**The Dalles, Oregon**, survivalist group looking for members of like mind. Send letter that includes your interests, and choose a code name that illustrates your main talent.

ASG 0908

**Detroit, Michigan**, serious survivalist looking to communicate with others of like interests. Would like to set up survival group to swap ideas and equipment.

ASG 0909

**San Bernardino, California**, survivalist family looking to exchange information on food storage, home building, gardening, home teaching, security and preparing for crises. We have medical and construction skills. Would be willing to start a group or be part of a link. Serious inquiries, no Rambos; God, family and country first.

ASG 0910

**New Brunswick, Canada**, would like to exchange survival information with anyone in the U.S. No communists.

ASG 0911

**Delta, British Columbia**, would like to join boaters and harbor dwellers in water retreat community. Long term shelter from the storm. "Sailing the farm" and docking it. Basics with defense.

ASG 0912

**Saint Augustine, Florida**, small group forming larger group. Members needed. Send brief information on yourself and experience. Open to all ages. No Nazis or communists need apply.

ASG 0913

**Honolulu, Hawaii**, looking for people in eastern Kentucky, western Virginia area to exchange information and help expand in this area. Very serious people only. No druggies, cultists, or commies. Only straight, interested people.

ASG 0914

**Pittsburgh, Pennsylvania**, student of self sufficiency, proficient in first aid, food storage, water treatment, and firearms, wishes to exchange information and train with like minded people in this area, with the possibility of forming a group. No extremists.

ASG 0915

**Cleveland, Texas**, seeking contact with anyone interested in survival or wants to form a survival group. Young or old, please write to me.

ASG 0916

**Healdsburg, California**, looking to exchange information and ideas and correspond with other survivalists.

ASG 0917

**Brandywine, Maryland**, 17-year-old would like to meet with people of same age or older. As a new survivalist, am seeking to join a nationwide survival group.

ASG 0918

**Bowie, Texas**, accepting volunteers in the north central Texas-south central Oklahoma area for bi-state survival net/militia. Individuals and groups welcome. Must furnish own equipment. Dedicated to Texhoma is all we ask. No extremists, flag wavers, Rambos, or racists need apply.

ASG 0919

**Plattsburgh, New York**, group of young (12-16) survivalists seeking new members. Wish to exchange information and ideas. Interested in weapons and paramilitary. Write for more information. Canadians welcome. Commies, gays, Nazis, druggies and nuts need not reply.

ASG 0920

**Crested Butte, Colorado**, 30-year-old bachelor seeks correspondence with individuals to trade technology/services, possibly start a group/retreat in area. No crazies, please.

ASG 0921

**Fort Polk, Louisiana**, 24-year-old Army sergeant would like to contact or join LDS survival group which is serious about surviving the future's hard times. Prefer west Oregon or Utah mountains areas.

ASG 0922

**Baltimore, Maryland**, college-educated WASP with MS degree wishes to correspond and trade information on surviving in metropolitan and urban areas. No racists or extremists, please.

Address response letters as follows:

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ASG 0000 (Code Number, As Above)

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Your letters will be forwarded to persons listed within two days of receipt. *American Survival Guide* accepts no responsibility for loss or delay of inquiry letters. Contact letters that do not carry the appropriate code number will be discarded.

Those who wish to be added to the directory listing, please send names and addresses to *American Survival Guide*, 2145 West La Palma Avenue, Anaheim, CA 92801. The listing is free. ●

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135 FREE DARTS Camouflaged. Free quiver holds 12 darts. Actual Photo

Combined gun 2 ft. gun + 3 1/2 ft. gun + 4 1/2 ft. gun

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## Keep It Running

(Continued from page 51)

turn today's high compression engines. It is not expected to crank for minutes on end; that is supposed to have been eliminated by hot electronic ignitions.

The battery also depends on the ability of the alternator to produce massive amounts of juice to replace the starting current. Today's starting battery is *not* a deep discharge unit. This internal construction of the battery has been altered, both chemically and mechanically, to meet modern conditions; and take advantage of better technology. And some of those alterations can get you in deep trouble.

The so-called zero-maintenance battery is just that—99 percent of the time. You've probably noticed that they have almost NO venting. That's because, in normal use, they don't generate anywhere near the amount of explosive hydrogen as older designs. If they are abused, however, by being run down and then "jumped," they will require as much service as the older batteries. **THEY WILL ALSO EXPLODE!** When jump-starting, disconnect the cables from the hot battery *first*—it won't be surrounded by a cloud of hydrogen.

When one of the smooth-top, maintenance-free batteries goes dead, it's probably out of water. But, how do you get into it? Look very carefully at that smooth top, right where the trade name is marked, and you'll notice a fine slot usually located around the logo. Slip a knife blade in at one end, and lift gently. Keep lifting, and the whole logo will come off, and six normal battery caps with it. If one of the cells is dry, fill it with distilled water, and drive off.

Discolored water and a habit of running dry in any individual cell, is an indication of impending death in that cell. If it croaks when you're out in the sticks, or at some remote national park, the only cure is to give it a quick flushing. For this, you'll need an acid-proof, plastic container (a non-styrofoam ice chest will do), and a source of running water.

Working cautiously, dump all the acid out of the battery into the pan. Now, take the casing and, either with a hose, or by submerging it in a stream, successively fill it with water and dump it out. What you're doing, is washing out the sediment that shorted out the plates of the dead cells. Carefully pour the acid back in, and this will leave you with a temporarily resurrected battery that will at least get you home.

The battery is the heart of the electrical system, but it depends on a network of wires to distribute its energy throughout the vehicle; and, again, dirt is the enemy. There are only 12 volts to work with, and each bad connection can cost you one of them. If you turn the key, and are rewarded with "click-click," or dead



This gravity feed will get the lady home . . . Notice that the hood is wired down to prevent flyups.

silence, check the terminals on the battery. Sometimes the car can be started by merely twisting the clamps to break the corrosion. Most of the time, however, you'll have to remove the clamps and clean them.

The one battery connection that no one ever seems to remember to check, is the negative cable to ground, somewhere on the block. It, like the positive cable, transmits heavy amperage, so a blockage here will cause a heat buildup. In fact, by moving your hands over the wires, you can detect bad sections by the presence of excess heat.

Many times, a failure to start is caused by the signal from the key switch simply not reaching the starter, and all that's needed is to locate the battery "Pos" wire on the starter; and, using it as a source of electrical energy, energize the starter directly. The principle is to use a short, heavy section of wire to feed power from the cable to the drive solenoid.

Starters vary from company to company, but you will find just two basic hookups in common use. Most GM and Chrysler units have the solenoid right on top of the starter itself, and sometimes, all that's needed is a good sharp rap, traveling from front to rear, to "wake them up." Ford and AMC use a separate relay on the

fender well to energize their starters, and it's a lot easier to get at when it malfunctions.

**CAUTION:** If your vehicle has an on-board computer, check with the manufacturer to find out if stray surges of amperage can damage it. The best all-around bet is to get the Chilton's manual for your car, and carry it in the tool box.

The last of the most common roadside catastrophes is sudden overheating, due to a clogged radiator, leaking core, or a loss of air. Your automatic reaction to overheating should be, oddly enough, to turn on the passenger heater. It's a source of heat to you, but to the engine, it is a little radiator—and every little bit helps.

Now, with the engine idling, pour water on the radiator only, because cold water poured directly on the engine can crack the block. If the problem is a collapsed hose, you can cut the bad layer out and limp home.

If the core is leaking, almost anything that can absorb water and swell, will help seal it—rolled oats, for instance, if you're anywhere near a store. Another unlikely candidate is plain, old black pepper from your picnic basket. And even egg white, poured slowly into the filler neck will "cook" on its way out, plugging the leak. Many modern autos have a battery powered fan, and if this has lost the signal from the "brain" it can be powered directly from the battery "Pos" terminal.

While the foregoing tricks and emergency fixes will get you home, the best bet is prevention in the first place; and that means two things: maintenance and knowledge. Obtain a copy of your car's technical manual, and do your homework, and you'll have eliminated the emergency before it can happen. ●

### Reading List

*Motor Auto Engines and Electrical Systems*, Published by MOTOR, 1790 Broadway, New York, NY 10019.

*Chilton's Manual*, available at most book stores and automotive parts houses.



25-Acre Spread:

# Self Sufficiency In A Tent Environment

*Enough was enough. We decided to chuck it all and go live in a tent . . .*

By Parton Keese

PHOTOS BY KAREN EBERHARDT



The tents are designed to keep the interior cool when it's hot outside and hold in warmth when it's cold outside.

**I**NFLATION was running rampant. You couldn't find a decent house for under \$100,000. Renting? Forget it. People would sell their soul for an apartment. Gas cost an arm and a leg. Unemployment had soared to record highs.

In the city, crime was everywhere. Uncollected garbage was piled high on the sidewalks. Pollution went unchecked. Subways, when they weren't on strike, constantly broke down. Politicians were surrounded by graft. School kids were turning to drugs. You couldn't find a parking place, and if you did, your car was towed away or stolen.

Enough was enough. We'd had it. We wanted to get away from the grime, the

smog, the cheating, the sick and the paybacks. We wanted sincerity, peace, beauty and a return to those good old-fashioned standards of living we used to read about in Booth Tarkington novels and The Saturday Evening Post. We wanted to find Mother Nature again.

That's when we decided to chuck it all and go live in a tent.

We'd found the almost-perfect tent in Maine, where Bill Moss, the inventor of brilliantly conceived alternative-type housing, hangs his hat. One of the projects he'd designed was a six-alcove, cotton-canvas fabric structure that looked as if it had come straight out of the Arabian night. Up to then, it had never been pro-

duced. So we became the first to order one, plus two smaller versions, put them in the trunk and drove off to California and our ultimate dream.

We already possessed the other essential ingredients, a 25-acre spread on the side of a small mountain not far from the coast. Beautiful weather nine months of the year, rain and fog the other three. At least, we knew what we were in for. The non-humid climate was perfect for growing things, raising kids, getting back to basics and enjoying a real down-to-earth life. And the less interference from the outside, the better.

We set up the tent on a redwood deck. We put in a road, a well, a water tank, a septic system, a kitchen and a bathroom. We were a good 600 yards away from the nearest country road. Everything was quiet, lovely and serene. Deer and rabbits frolicked among the eucalyptus. We bought goats (for milk and cheese), sheep (for wool and grass-mowing), chickens and ducks (for eggs) and bees (for honey and pollination). We already had a good supply of dogs, cats and guinea pigs.

Then we planted a large garden and orchard. Everything came up as if Burpee himself had supervised it. A natural spring furnished the water, while the animal droppings and the kitchen compost took care of the fertilizer. We needed very little from the outside. In fact, we were able to trade our surplus produce for baby sitting, transportation and an occasional hired hand.

**Utilities**—There was little we lacked in comfort, either. The tents melded with the fields and trees as if God intended it that way. A plumber friend hooked us up with a shower, toilet and running water (gravity fed from the tank up the hill, with the pipes coming up through the floor). A gas

*(Continued on page 77)*





Part of the author's tent complex erected on his property in California.



The multi-alcove, cotton canvas fabric tent home looks like it came straight out of Arabian Nights.



A view from inside the main tent structure.



The rural area surrounding the tent home.



## Creature Of The Forest

(Continued from page 65)

dentistry was probably only a minor inconvenience.

By the winter of 1944 the Forest Service began a concerted, organized effort to find out who was living back in their Idaho snow country.

Several factors contributed to this decision. Probably foremost was the conclusion that the theft of food and the trashing of their cabins was not the random work of many different people.

As a result of the increased search activity, Moreland became even more paranoid. He seldom visited the cabins or lookouts unless absolutely forced to by hunger. During the summer months he completely abandoned his home territory and went afield, visiting areas as much as 400 miles away.

The wild man never traveled the established trails, electing instead to walk parallel to and above them. When there was any doubt, he moved an hour after sunrise and an hour before sunset. By so doing he could see and smell smoke from campers' fires as well as know from the condition of the deer and elk if anyone was near. A favorite trick was to strap his snowshoes on backwards and walk into creeks. He would wade up the creek to a rivulet and then climb up the little tributary to safety.

Often he left confusing sets of tracks. Forest rangers reported double prints and concluded it was somebody else. However, it was Moreland—with a second set of shoes fastened to a couple of walking poles.

Bill even used stilts with elk hooves to throw off pursuers.



Wild streams and rivers cut through the country, making travel very difficult and hazardous.

He kept two rafts—one on each side of the river. When pursued, he would dismantle one raft and hide in the bush on the riverbank. Invariably the pursuers thought he had crossed to the other side, because that's where the whole raft was.

**Capture**—The end of Bill Moreland's grim saga came February 9, 1945. Two crack Forest Service woodsmen climaxed a dramatic six-day chase in 20-degree-below-zero weather and stormed his tiny camp high up on the mountain above Skull Creek Cabin.

They found a frightened, raggedy little man wearing an old pair of holey rubber boots, a pair of old pants, and an old mackinaw. He had no long underwear at the time—a fact that amazed everyone who saw him during the first few days.

His tent was a small piece of canvas strung over a low line. It was open on both ends. A government issue sleeping bag hung out, wet and pathetic, from both ends.



When pressed, Moreland used Forest Service cabins for shelter.

Other possessions included a jack knife, fishing line, matches, some bottles of boric acid and oil of cloves, and a tiny sack of .22 cartridges. Another bottle hung round his neck containing the tin can key he used to open the Forest Service locks.

The last dab of the wild man's food supply lay sizzling in an open fry pan. A tiny cedar chip fire provided heat. Obviously it wouldn't have been long till hunger pressed the wild man again. Something that probably had occurred thousands of times in the last 13 years.

It took the better part of two days to walk to the rail head where the trio caught a man car back to civilization. During that time four of the finest Forest Service walkers made a concerted effort to wear Moreland down. They did—but it took all four!

The wild man adjusted poorly to civilization. He had numerous brushes with the law and generally got along poorly with humans. Several times he reverted to his old haunts only to be brought out again.

Early in the fall of 1963 the wild man escaped from a state mental institution in Orofino, Idaho. He was 62 at the time.

Several people saw him on the road back to his old territory but that has been all.

Bill Moreland hasn't been found. Perhaps his bones lie on one of the lonely snow swept ridges back in the "Clearwater," the cruel mountains having taken their final toll. ●



Moreland survived partly by taking food from chop boxes left in Forest Service lookouts.



The only known picture of Bill Moreland, from the University of Idaho collection.



## Self Sufficiency In A Tent Environment

(Continued from page 75)



The alcoves provide considerable additional living space.

generator supplied power for the well pump and anything else we needed electricity for. We used kerosene stoves for heat, propane stoves to cook on, batteries and kerosene to light the lamps, and good old solar-heated water bags for showers. Later, we installed solar collectors and a wood stove (with water jacket) to give us constant hot water.

Ice cubes and freezing foods were a slight problem because we didn't want to use the generator for just that. We bought a fridge and filled the freezing compartment with ice blocks that had been frozen at a neighbor's. Hey, how would we have met anyone if we didn't admit to needing a little bit of help?

When the winter storms hit (quite furiously the first two years) and knocked out power lines, cut off roads and flooded low-lying areas, we probably wouldn't even have known about it if we hadn't seen it in the newspapers. We were as self sufficient as we could be and, maybe, the envy of a lot of people.

The tent, of course, remained the center of attraction. Everyone wanted to see it. We gave a few parties so that they could. On such occasions, we burned incense in all three of the structures to give it a middle-eastern effect. We kept the kerosene lanterns low to make it mysterious. And all about, we scattered pillows made out of textiles and patterns from India to complete the other-side-of-the-world look.

The tents cover about 1,000 square feet. The main one has six alcoves, which we turned into small rooms or studies through the use of screens. Large semicircular windows grace the alcoves, while two big zippered doors allow easy circulation. They

are all connected, either by door or by canopy.

Tents are remarkable in their simplicity. Even inside, you have the feeling you are part of the surroundings. Every sound, nearly, can be heard clearly. At night, the owl's hoot, doves' cooing and a peacock's shriek penetrate the walls as if we were situated in a sleeping bag out in the field.

When it rains, though, it's like being inside a drum. From the outside at night, a lighted tent glows like an incandescent jack-o'-lantern. The heat of the day can be trapped by shutting the windows and doors. Likewise, the coolness of the night can easily be enticed into entering by opening everything wide. Sweet smells and aromas make their way in, regardless. Mother Nature loves a tent.

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Noted the building inspector: "You probably own the safest structure in the county when it comes to earthquakes. The worst that can probably happen to you, is for the material to settle softly around you." Who else can say that? ●

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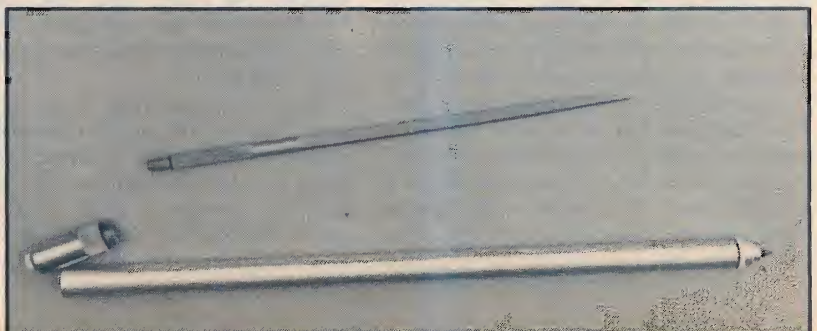
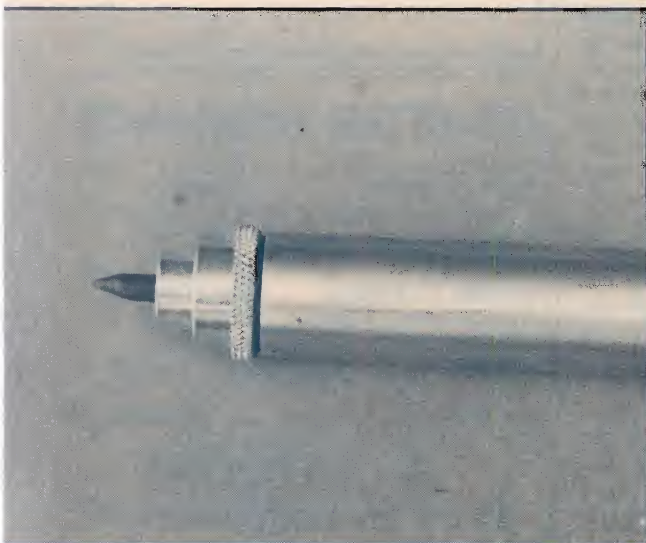
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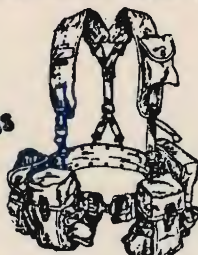
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